

**ATCC Deposit No.: 209067****DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

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**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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Form PCT/RO/134 (July 1992)



**ATCC Deposit No.: 209068**

### **CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

### **NORWAY**

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### **AUSTRALIA**

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### **FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

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**ATCC Deposit No.: 209068**

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Applicant's or agent's file  
reference number

PA101PCT

International application No.

UNASSIGNED

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Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209069
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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**ATCC Deposit No.: 209069**

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### **UNITED KINGDOM**

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**ATCC Deposit No.: 209069**

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**SWEDEN**

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**NETHERLANDS**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit:  12 January 1998	Accession Number  209579
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
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**ATCC Deposit No.: 209579**

## **CANADA**

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## **NORWAY**

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## **AUSTRALIA**

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## **FINLAND**

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## **UNITED KINGDOM**

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**ATCC Deposit No.: 209579**

## **DENMARK**

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## **SWEDEN**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>12 January 1998</u>	Accession Number <u>209578</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) <u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application Authorized officer <u>Sonya D. Barnes</u> <u>PCT/Internat'l Appl Processing Div</u> <u>(703) 305-3665</u>	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer

Form PCT/RO/134 (July 1992)

ATCC Deposit No.: 209578

## CANADA

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## NORWAY

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## UNITED KINGDOM

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ATCC Deposit No.: 209578

**DENMARK**

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Applicant's or agent's file  
reference number

PA101PCT

International application No.

UNASSIGNED

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13/bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
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Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>16 July 1998</u>	Accession Number <u>203067</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable)	
This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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Form PCT/RO/134 (July 1992)

ATCC Deposit No.: 203067

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### NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.



Applicant's or agent's file  
reference number

PA101PCT

International application No.

UNASSIGNED

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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Form PCT/RO/134 (July 1992)

**ATCC Deposit No.: 203068**

### **CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

### **NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

### **AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

### **FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

### **UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: 203068

#### DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### NETHERLANDS

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Applicant's or agent's file  
reference number

PA101PCT

International application No.

UNASSIGNED

## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>01 February 1999</u>	Accession Number <u>203609</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	
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Authorized officer <u>Sonya D. Barnes</u> <u>PCT/Internat'l Appl Processing Div</u> <u>(703) 305-3665</u>	Authorized officer <u>  </u>

Form PCT/RO/134 (July 1992)

ATCC Deposit No.: 203609

## CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

## NORWAY

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## AUSTRALIA

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## FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

## UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No.: 203609**

**DENMARK**

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**SWEDEN**

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**NETHERLANDS**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>01 February 1999</u>	Accession Number <u>203610</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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Form PCT/RO/134 (July 1992)



**ATCC Deposit No.: 203610**

### **CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

### **NORWAY**

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### **AUSTRALIA**

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### **FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

### **UNITED KINGDOM**

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ATCC Deposit No.: 203610

**DENMARK**

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**SWEDEN**

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**NETHERLANDS**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT	
Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>17 November 1998</u>	Accession Number <u>203485</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable)	
This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g. "Accession Number of Deposit")	
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Authorized officer <u>Sonya D. Barnes</u> <u>PCT/Internat'l Appl Processing Div</u> <u>(703) 305-3665</u>	
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Authorized officer	

Form PCT/RO/134 (July 1992)

ATCC Deposit No.: 203485

## CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

## NORWAY

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## AUSTRALIA

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## FINLAND

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## UNITED KINGDOM

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**ATCC Deposit No.: 203485**

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

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**NETHERLANDS**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>18 June 1999</u>	Accession Number <u>PTA-252</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
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<p style="text-align: center;">For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <p>Authorized officer <u>Sonya D. Barnes</u> <u>PCT/Internat'l Appl Processing Div</u> <u>(703) 305-3665</u></p>	<p style="text-align: center;">For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <p>Authorized officer</p>
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Form PCT/RO/134 (July 1992)



**ATCC Deposit No.: PTA-252**

### **CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

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### **AUSTRALIA**

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**ATCC Deposit No.: PTA-252**

## **DENMARK**

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## **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>100</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>18 June 1999</u>	Accession Number <u>PTA-253</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	
Form PCT/RO/134 (July 1992)	

<b>For receiving Office use only</b> <input checked="" type="checkbox"/> This sheet was received with the international application  Authorized officer <b>Sonya D. Barnes</b> <b>P&amp;T/Internat'l Appl Processing Div</b> <b>(703) 305-3665</b>	<b>For International Bureau use only</b> <input type="checkbox"/> This sheet was received by the International Bureau on:  Authorized officer
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ATCC Deposit No.: PTA-253

## CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

## NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

## AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

## FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

## UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

**ATCC Deposit No.: PTA-253**

**DENMARK**

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Applicant's or agent's file reference number	PA101PCT	International application No.	UNASSIGNED
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B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>22 December 1999</u>	Accession Number <u>PTA-1081</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	
<div>For receiving Office use only</div> <div><input checked="" type="checkbox"/> This sheet was received with the international application</div> <div>Authorized officer <b>Sonya D. Barnes</b> <b>PCT/Internat'l Appl Processing Div</b> <b>(703) 305-3665</b></div>	<div>For International Bureau use only</div> <div><input type="checkbox"/> This sheet was received by the International Bureau on:</div> <div>Authorized officer</div>

Form PCT/RO/134 (July 1992)

ATCC Deposit No.: PTA-1081

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ATCC Deposit No.: PTA-1081

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*What Is Claimed Is:*

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group  
5 consisting of:

(a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;

10 (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;

(c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO:X or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;

15 (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;

20 (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;

(f) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X, having biological activity;

(g) a polynucleotide which is a variant of SEQ ID NO:X;

25 (h) a polynucleotide which is an allelic variant of SEQ ID NO:X;

(i) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;

30 (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide

sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

5

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

10

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

15

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

20

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

25

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

30

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.
11. An isolated polypeptide comprising an amino acid sequence at least  
5 95% identical to a sequence selected from the group consisting of:
- (a) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (b) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone, having biological activity;
  - 10 (c) a polypeptide domain of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (d) a polypeptide epitope of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - 15 (e) a full length protein of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (f) a variant of SEQ ID NO:Y;
  - (g) an allelic variant of SEQ ID NO:Y; or
  - (h) a species homologue of the SEQ ID NO:Y.
- 20 12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
- 25 13. An isolated antibody that binds specifically to the isolated polypeptide of claim 11.
14. A recombinant host cell that expresses the isolated polypeptide of claim 11.
- 30 15. A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

5           16.     The polypeptide produced by claim 15.

17.     A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

10

18.     A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and

15

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19.     A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

20

(a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

25

20.     A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

30

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.
22. A method of identifying an activity in a biological assay, wherein the method comprises:
- 5 (a) expressing SEQ ID NO:X in a cell;
- (b) isolating the supernatant;
- (c) detecting an activity in a biological assay; and
- (d) identifying the protein in the supernatant having the activity.
- 10 23. The product produced by the method of claim 20.



## SEQUENCE LISTING

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Steve Ruben

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<210> 4

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 4

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cgccgcagga ntttcgtgga agcctgcaga gcaagggaag cagcgtttga tgccgaatat 180  
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aaaaggggga gggggaagct tatcttgaaa aagcatcaca gaagtagaaa aaaatgtcga 480  
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aattgtcgga atatgtgctc tcttcatgtc atattcaata gaagtttcta gtttaagatt 780  
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taaatacatgt tttcaagaac gtcaaatttc tggacttttt tctttcaatt ttttaatttt 900  
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gaaaagccaa aaaaaaaaaa aaaaac 986

<210> 5

<211> 370

<212> DNA

<213> Homo sapiens

<400> 5

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atctaattggc tctgcccaca cacgaatctc agtacaatgc ttgtcccctg ccaccacagg 180  
ctcagcatca gtagatctct gttgtaccag agatatttct ctgttacctg gagagccacc 240  
tattgctgtt cccacagggtg tttttggccc cttgccgact ggcagtgtcg gtttgctatt 300  
tgatctctca agcctaaatt taaaagggtg tcaagtacat actggtgtaa ttgattctga 360  
tattcagggtg 370

<210> 6

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<400> 6

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tcatgccaca aaatttggtta gctccacctt taaaatatat ttagattaag acctctcttc 120
atcaccaccc tgctgtcacc ctaacaaagc aaccatcatc tctcaaaata aatcctaata 180
tccttagggc ttcttagggc tactctttat gcccagggt acctatccag gtgaatctct 240
tccagtctct ctccatgaat ttctgtctca cagaatgcat gtaccattgc actttgtaac 300
gtcagtctct cccaccagac aatgatcaga ttcttaggtg tctctttata cccattcaca 360
gtgcactgac tgagcacaaa tttaagggtt caataaatgg taagtgaatg aataatgaat 420
gaatgaatgc tacaatattg attataatgg ataaagagat atattgacct gcttgacaga 480
aagccgaggg gggcaaagta aaatgggcct n 511
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<210> 7

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (676)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<400> 7

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gaggggacag gctgacstgg aggrccagag gccccggag gagcactgaa ggagaagatc 120
tgccagtggg tctccattgc ccagctcctg cccacactcc cgctgttgc cctgaccaga 180
gtcatcatgc ctcttgagca gaggagtcag cactgcaagc ctgaagaagg ccttgaggcc 240
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cgaggagagg ccctgggcct ggtgggtgcg cagctcctgc tactgaggag caggaggctg 300  
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 cagatcctcc ccagagtcct cagggagcct ccagcctccc camtaccatg aactaccctc 420  
 tctggagcca atcctatgag gactccagca accaagaaga ggaggggcca agcaccttcc 480  
 ctgacctgga gtctgagttc caagcagcac tcagtaggaa ggtggccaag ttggttcatt 540  
 ttctgctcct caagtatcga gccanggagc cggtcacaaa gccagaaatg ctggggagtg 600  
 tcgtcggaaa attggcaagt acttcttttn ctgngatctt caagcaaaaag ctttccgatt 660  
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<210> 8

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 8

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 tttgatacat aatttgcccg agtttatcca taaattctat gtcttccttt ttatctcctt 180  
 tcataattct acaccctgct gtggcctggc caacataatg atttaggtga tctagagttt 240  
 agtcaaactg gataattgat tgtaattgct tagaaattta ccacaaaaat cgcctctgtt 300  
 tctttgggat tgctcctaac ttttcacttc ttttgagggc tgcacacgct gtntcagca 360  
 gctactggtc ccagccactg ggggaagaaa gaaatgcatg gtaggacagc ncttaccaat 420  
 tccttttaat tgcnaattc gaagc 445

<210> 9

<211> 758

<212> DNA

<213> Homo sapiens

<400> 9

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 aaactgcaga tcggccagag tggtagaaaa gttgctgcag ggtttttctg gctttgcctg 180  
 cccagccgct ccatgcctgg ctagaggaga aggaggagcc acatgtggtg cactggaggc 240  
 tggagcctgc agatggcatg gctctgcggc tcaccttgct gcagttggtg gtggtgacag 300  
 agactgcagc ttgactgtag tgaatttgga aattatctgt ctggaagctc tgagtttata 360



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gagccctagc tgctattccc cattcaacgc cccttttcag caggaagtag ccagaaggag 540  
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aggagttact aagaaattat tttaggcaga tagagaggaa aaggggtcct tgggaagttt 660  
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<210> 10

<211> 3064

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1375)

<223> n equals a,t,g, or c

<400> 10

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cagaggaact acatggtgca gacggaggac cagtacgtgt tcatccatga ggcgctgctg 420  
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<210> 11

<211> 1496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1478)

<223> n equals a,t,g, or c

<400> 11

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tgtgttcctt gctcccactt ttcttccctt ggtttgtgat tattaggaga gaggttttgc 180  
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<210> 12

<211> 1427

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1407)

<223> n equals a,t,g, or c

<400> 12

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gagacactgc gaaaacaaac cgaggagaaa gagaaaaaag agaagccaaa atctgataag 180  
actgaagaga tagcagaaga ggaagaaact gttttcccca aagctaaaca agttaaaaag 240  
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<210> 13

<211> 3548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1103)

<223> n equals a,t,g, or c

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<210> 14

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<400> 14

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<213> Homo sapiens

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<222> (847)

<223> n equals a,t,g, or c

<400> 15

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cagatgtgca tgcaagtctc cagtggaaact ttagacctca gcaaacagaa atatagtgg 540
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tttttctaca ttgatcctga atttgctgaa gatccaagga atgattaaag ttgrtcttat 780
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<210> 16

<211> 2805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature



<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 16

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&lt;210&gt; 17

&lt;211&gt; 710

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (21)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (608)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 17

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&lt;210&gt; 18

&lt;211&gt; 992

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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&lt;210&gt; 19

&lt;211&gt; 1795

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 19

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ctgaacatcc cttttatttt acccctggag aggcgagtc gtccttccc acccctacct 120  
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<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (708)

<223> n equals a,t,g, or c

<400> 20

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<210> 21

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<400> 21

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gatatgtwag twcttccmct tgtgtatatt ttaatgaata ttgatgttaa caagaagggg 300
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tcctatttat gtccatttta aatttaagga aaaaggggcg aaaatttaaa actaanggcn 600
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<210> 22

<211> 1607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (820)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (821)

<223> n equals a,t,g, or c

<400> 22

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&lt;211&gt; 2680

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&lt;213&gt; Homo sapiens

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tcattattta aaaaaaaaaa 2539

&lt;210&gt; 30

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

gtcttctaga ggtagagtcg agtgtatctg agagtgtctt tctcttagaa taaatgacat 60  
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ctctgcatcc ttac 494

&lt;210&gt; 31

&lt;211&gt; 1263

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 31

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taaatgatgt tttgggtaag agtggaccat gagaattagc tgacagcatc ccctttctct 60
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attggagact tactggcatg gctctacagc tgctcagtta ttaatcatgc agactaacct 360
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atttcactct ctaaaagcaa cagcatgtaa actagaatga aagaaggaaa ttatgtacgt 1140
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gataaataaa aaattcaaag tagttttaat tatcctaaaa aaaaaaaaaa aaaaaaaagt 1260
ttt 1263
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&lt;210&gt; 32

&lt;211&gt; 337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (337)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 32

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ggcacgagggc aaaaatgaaa acaaggcagc agcatcagac ctatcttttag attgtttttt 60
ttttctctct cttttacaag tgctcagttta attccagagc cctggcccag tattttctga 120
tgattttctc cccaaggaag agaaggaaat ccctgctggt tacacagctg cgatgtcaga 180
cttcctctga aacatgcact gttgctgcct attagcataa cttcagctctc tcattctctc 240
ctgactgatt agtgatctgc aggagttta aaaaacatac tttggagggg ccgggcgtgg 300
tggtctcacgc ctataatccc agcacttttg gaggctn 337
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&lt;210&gt; 33

&lt;211&gt; 1742

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1576)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1578)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1621)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1724)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1733)  
<223> n equals a,t,g, or c

<400> 33

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gcttgctgtc	tctcagaatt	gttttcttac	cttttaaatgt	aatgacgagt	gtgcttcagt	180
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aaagacttga	aaacaaaaaa	cagttactta	tagtcaatgg	gtaagcagag	tctgaattta	360
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aaccaacaga	attttaactc	tattaacttt	tccaaatttt	cctatgcttt	tagttaacat	720
cattattgta	tcctaattgc	actaggggag	agagcttttg	actctgttgg	gttttatttg	780
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gaaaggggagc	tgaaatagga	acagaaaaat	caacccttat	aactagtga	caccaaggga	960
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aacatggaat	actacgaatg	aaatcacatc	actgtatctt	ttacatcaat	agcctcacca	1080
ctaatatatc	ttgtatctag	gtgtctataa	tggctgaaac	cactacatcc	atctatgcca	1140

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naawtaaagg aacactttct accyctgttt ccaggatttt tgaaacactt wtttttaaac 1680  
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ta 1742

<210> 34

<211> 1166

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (965)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 34

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agtggcgtgg cgcagggatg gcacaaaaga aatatcttca agcaaaattg acccagtttt 120  
taagggaaga caggattcaa ctttggaac ctccatatac agatgaaaat aaaaaagttg 180  
gtttggcatt aaaggacctt gctaagcagt actctgacag actagaatgc tgtgaaaatg 240  
aagtagaaaa ggtaatagaa gaaatacgtt gcaaggcaat tgagcgtgga acaggaaatg 300  
acaattatag aacaacggga attgctacaa tcgagggtgtt ttaccacca agactaaaaa 360  
aagataggaa aaacttgttg gagacccgat tgcacatcac tggcagagaa ctgagggtcca 420  
aaatagctga aacctttgga cttcaagaaa attatatcaa aattgtcata aataagaagc 480  
aactacaact agggaaaacc cttgaagaac aaggcgtggc tcacaatgtg aaagcgatgg 540  
tgcttgaact aaaacaatct gaagaggacg cgaggaaaaa cttccagtta gaggaagagg 600  
agcaaaatga ggccaaactc aaagaaaaac aaattcagag gaccaagaga ggactagaaa 660  
tactggcaaa gagagcagca gagacagtgg tggatccaga aatgacaccg tacttagaca 720  
tagctaacca gacaggcaga tcaatcagaa ttcccccatc agaaagaaaa gcccttatgt 780  
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<210> 35  
<211> 1049  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (38)  
<223> n equals a,t,g, or c

<400> 35  
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ccgcgaaagc cccagggggc attggaccct acagtcaagc tgtattagtc gacaggacca 180  
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gtgacttcac taacgtgggtg aaaacaactg ttctttctggc tgacataaat gacttcaata 360  
ctgtcaatga aatctacaaa cagtatttca agagtaattt tcctgctaga gctgcttacc 420  
aagttgctgc tttaaccaaa ggcagccgaa ttgaaattga agcagtagct atccaaggac 480  
cactgacaac ggcattcacta taagtggggc cagtgtgtgt tagtctggaa ttgttaacat 540  
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agtgtgagtt tgatgaaaat atctgaagct attatggaaa taccatgtaa tagggagagt 660  
tgaacatgaa tattagagaa ggaatccagt tactttttta aattacacct gtgtgcacct 720  
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aaactaatga tgtgaactat ttagttttga tgtccgttat gtgattctgc ttttacttga 900  
gtaaaattaa agtgttttaa tttgagatca aggagaagat agtggacaa aatgttatat 960  
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aaaaaaaaaa aaaaaaaaaa aaaactcga 1049

<210> 36  
<211> 489  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (353)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 36

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attgccagga ttttgcaggt tagattgtac tacagcactg cctttggctt gccagactct 120
ggagtcccca catTTTcatc ctgttctcag gaaaacactt tgaccactt gaagctctga 180
gctactgctt cacagcttcc tgggggtcagt ctccagccaa aaccatagat atcccaamwg 240
cagccaaacc acggctcttg gcgaaggaaac gattagggtt actstaggtt tccacaccct 300
gatgctcctg gcctttaatt tgacaactct ggactgccag gttttcacag acngttggac 360
atggattcaa gattgggaat gtnangggat ggtttggcaa cagtgtttgc tttgagcagt 420
tttaaaattt ggccaggaga ttcattgtgag caagaaatgt tagataccag ttttttgggg 480
tcaagggggg 489
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<210> 37

<211> 598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<400> 37

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cagaattggt ctaataaaaa taacgaccat ttctttctac tccagtctct ttcacaaact 180
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gaactccctt ctttttgttt ctcttccctt ccccccttcc cctgcggttg tagagcccgt 420
tctgtccggt cgtgggtctg tccagccatg atccgggagt cctagcttgc taatggamca 480
cctgagatgt tccttatggc tcaaggctwa aattgaagggt gggaaccacc tgaagcctcc 540
gtgggggaggc cttgsgggag gttwggccta aargcattag gaagatacta gcttnagg 598
```

<210> 38

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<400> 38

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taatgagatt tttggatcga tttgtatacc gaaatccaaa gcccataaa ggcaaagaaa 180
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aagatgataa ctgtttcagc tctggaaagg atgatatgga ttttgctgga aacgtgaaaa 480
agagaacaaa aggagctaag gataacacat tagatgaaga ttcagaagggt agtgatgatg 540
aacttggtta cctggatgac gatgraagtt tctttaggga agtatggatg atggaagaat 600
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aaagtggaga gtgtttccag aacttggaag ttccactccc aaagtccagt accaaggaaa 720
agccnagagn aaaagggtac cagtggattt ttggaccttg gc 762
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<210> 39

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1835)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1885)

<223> n equals a,t,g, or c

<400> 39

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gctcttctcg cgctgggtctc cagttcccggt tgggcccaggt gcaccgcctg ctccgtaaaag 180
gcaactacgc agagcggggtt ggggcaggcg cggcgggtgta cctggcggcg gtgttagagt 240
acctgaccgc cgagatcctg gagctggccg gcaacgcggc tcgcgacaac aagaagactc 300
gcatcatccc gcgccacttg cagctggcca tccgcaacga cgaggagctc aacaaactgc 360
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ctaagaagac cgagagtcac cacaaggcca agggcaagtg atttgacagg tatctgagct 480
cccggaaacg ctatcaaacc caaaggctct tttcagagcc cccctaccgt ttcaaaggaa 540
gagctaacct cactgcttgt aggtagaagg aaaaaaggca ctaagggttg aaaagcttct 600
catttcagag agatgccagg atcctaagt cctgccaaac ttaccaattc taaggaataa 660
gtggatggat ggcattactg attcctacat tactgattga ttctgcatcc gcaaattggt 720
ttattaaaaa cattctacat catgtgtggg gagataagga ggataaaatg aagagaaaga 780
atattattga ggggaagttc ttctgaatac aaaatgtgtt taatttttta aataagtatt 840
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aacttaccce ggtggtcact tttcttttct ttgtgtatct gccagattt cattcctgct 960
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```

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gctgtattcc cagggtccca gcatnggkgc ctggacgctg cckgggcaaa tagtagtcac 1920
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<210> 40

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 40

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gtcgggtgcs ctggggcctg aggagaactt tctttctttg gacgacatcc tgatgtccca 180
cgagaagctg ccggtgcsca cggagaccgc catgcctcgc cttgggcttt cttcctggag 240
cggagnaagg cgccgagact gacaacgcgg tcccacagac ttttatcgga cgttttcgcc 300
gcatcatgga ctctcacag aatgcttaca acgaagacac ttcagccctg ggtagccagg 360
ctagacgaga tggagagggg cttatttcaa acagggcaga aaggactgaa tgactttcag 420

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<210> 41

<211> 860

<212> DNA

<213> Homo sapiens

<400> 41

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gtggacgtgg ctgagttctc ctgcgcctac gggcctggcc agaggaggat gatcctgaag 180  
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gagacttcag ggcttgtcac ttctcagagtg tggagggtcag gatggctgcg ggcaatgaag 780  
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<210> 42

<211> 1131

<212> DNA

<213> Homo sapiens

<400> 42

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actattttaga gtccagaggg agccatggca ctagaaatag ttgataatga aatgagattt 180  
tatgaagtat accgctccac ctatgagcgt ctgtctctgt gggcttggga tgttaacagg 240  
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gcttcttaat tcaagagaca aaccaagacg ttctgtcaac tgtgctgtgc tcttctttaa 360  
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aacaatggta tctctgaaac tcacaaccta aagcccaatc ttgaaaatat gttgtgcacc 540  
aagacgactg cttcagcttc ttctcttctc cttactttct ttaatagata tttattaaac 600  
tgtccagtga aaaggtgcca caatgcccag tattgtaaac aacaggtttg cattcatgaa 660  
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<210> 43

<211> 1334  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1019)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1204)  
<223> n equals a,t,g, or c

<400> 43  
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<210> 44  
<211> 2351  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1106)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (2324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2350)

<223> n equals a,t,g, or c

<400> 44

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tcaaccata aagaccaggt ccagcacctg ggtcttgga catccctggc ctcaggccct 480  
cacctaacag tgaggcagca gctgcccagc cccgcaatgt gcctgctgtc aggcagctct 540  
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cctctccagt gacattggaa catgctactt ttttaattggc cctgtacagt ttgcttattt 1980  
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agatcagttt gtttctttct gtgctggtaa c atgagcgt cgcacagaca tggtttcagg 2280  
taaataaatc tattctatga taaaaaaaaa a aaaaaaaaaa gggngggccc nctaaggggt 2340  
ccaagcttan g 2351

<210> 45

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 45

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tattttttttg tagagatggg gttgtccagg ctggtctcaa actcctgagc tcaagcaatg 180  
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tcctgcgaag gaaattccag agcctgtatt taagctacct aggccttttac actcccttta 360  
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aaagaggggc caacctacca ctaagaaggg acaaaccttg aactaagtaa gaccttacac 480  
accagaaaag aacactgggc cctccttctt cagggacaat gcagtagcca cttggcttgt 540  
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ttaagcaaaa tccttttcaga aagaaacaaa tggggaaggg cagattaaga atgcatatgt 840  
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tttcatggag tctatgctga tcctttaatt gacaaataaa agatatatat ctgtgggtgtg 1560  
caaaaaaaca aaaaaaaaaa aaaaaaa 1587

<210> 46

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<400> 46

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gccaccttgt gaagaagggtg ccttggttcc cctttacctt caaccatgac tgtaaatttc 180
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ggctgaggca ggagggacg 379
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<210> 47

<211> 1920

<212> DNA

<213> Homo sapiens

<400> 47

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gaacaaggag ttaaaagcaa tccatgtgac tcaagccttt cacatactga cagatgggtat 180
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<210> 48



<211> 319  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (306)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (317)  
 <223> n equals a,t,g, or c

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 tgaaagtaag cacaagaaga aaaaaagcct tatctttgct ctagattttg caaaggggaa 180  
 atttcaacag aacgcaatca ttgctacacg tctgccaaaga cacaaggctt gggcgatctt 240  
 tttttgttca tttgttttgg atacttagct agtttttctt aaatgtatac cattggaggg 300  
 ggatanctgg gcctttngg 319

<210> 49  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
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 taccgcttcg ctggcgggcg cgtggagtga tgaccctrat gtttatcttg ctggcgggcca 180  
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<210> 50  
 <211> 652  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
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 tctttggcat ttatttggtt tttctacgtt ttcagtccca tttactccaa gactcactcc 180  
 ctgccacctt gtgcatcaga tacagctact tctggctgac ttttcaaggg ggaccaccct 240  
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 cctagtcagg actgataccc tttccgtttc agaggattgc caagaaaaaa ctcacagttg 420  
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 cagtagctct gccgccttcc ccagagaggg ggtccagggg acatcctgga aggctggggc 600  
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<210> 51  
<211> 943  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (140)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (843)  
<223> n equals a,t,g, or c

<400> 51  
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ggatgcctgc gagcaagcan gcggtcaccg ttccctactt ctatgatgtc acaaggaaca 180  
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aatgcagtga gatcaacaga gagaaggaga agaacacgca gctgraagag gaggatcgag 780  
gagctnggag gcagagctcc gagaaaagga gacagagctg gaaagatctt ccggaanaa 840  
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<210> 52  
<211> 832  
<212> DNA  
<213> Homo sapiens

<400> 52  
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gaggaagtca gagcgatgtg ctgtgaaatc tactaccgtt tgctgggtttt gaaaatggag 180  
aaaaagagtg aggaactgag aaacatggat ggccttggga acgtggaaaa gggtcactga 240  
aatgggacga catgaactca aggaggctat ttatgaccat gtcatttgca acatgaagaa 300  
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gttacactgc ttgaatcctg tcagtcctat actggagtc tgttaataca aaataatagt 420  
aataatccct ctgtttctta tgtttatgcc aacttcaaca aaaagaaact tgactaagag 480  
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540  
gtatatgagt cccttttcac gatgcgatgt catgtctttt aaataagcca tactttatgt 600  
tcaataaaaa gagaataagc aggattcgcm agagaacaca atcccttttt aactgctggg 660  
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720  
cggtttgtga tgatgtgatt gggcctctaa gtgacaacat tgttccctgt atagagtga 780  
tggcaagtgc atttataaaa ttggccatca tggctgttaa atttaaaaaa aa 832

&lt;210&gt; 53

&lt;211&gt; 1554

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

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cctacggacg gawaaggagg agcattgcag gccgagacgc cctcatcagc agagtcacag 120  
gagttttggg aagtgaagag aaaagaaaag ttgattacaa acgggaccat attttgcttc 180  
gaaatggaac cagcagttag cgagccaatg agagaccaag tcgcacggac tcatttgaca 240  
gaggacactc ccaaagtga tgcgtgacata gaaaaggtta accmgaatca ggccmagaga 300  
tgcacagtg tgggtggctc tggattcctg gggcagcaca tgggtggagca gttgctggca 360  
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ttctttctgg gtgacctctg cagccgacag gatctgtacc cagctctgaa aggtgtaaac 480  
acagttttcc actgtgcgtc acccccacca tccagtaaca acaaggagct cttttataga 540  
gtgaattaca ttggcaccaa gaatgtcatt gaaacttgca aagaggctgg ggttcagaaa 600  
ctcattttta ccagcagtg cagtgtcatt tttgagggcg tcgatatcaa gaatggaact 660  
gaagaccttc cctatgccat gaaacccatt gactactaca cagagactaa gatcttacag 720  
gagagggcag ttctggggcg caacgatcct gagaagaatt tcttaaccac agccatccgc 780  
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tactctttcc gtgacgatga gggcggcaaa aacagacatt tcttccttca tggaaactgga 1500  
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&lt;210&gt; 54

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

agctattttac aggtttttaag caaatgatta tgtctgtgtt ttaaagggtat tatattctag 60  
atgcttcatg gaattacgtc atttatactt tataaatcta taatgtgtam tgaattaaaa 120  
acaagcttgg gaaacataaa ctcaagttag aaaatatggg tttgacataa aaccttaaat 180

atgtttcatt tgtttgcttg ttggcttgt ttgtttctaa cacaagttta acctacatgt 240  
gagtcacctt tgggattgat gagtctagrg ttgaaacca g 281

<210> 55

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (770)

<223> n equals a,t,g, or c

<400> 55

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cgtggattgg tgagaggggc catgggtggg gggatgcagg agagggagcc agccctgact 120  
gtcaagctga ggctcttttc cccccaaccc agcaccaccag ccagacagg gagctgggct 180  
ctttttctgtc tctcccagcc ccactccaag cccatcccc cagccccctcc atattgcaac 240  
agtcctcact cccacaccag gtccccgctc cctcccactt acsccagarc tttctcccca 300  
ttgcccagcc aactccctgc tcccagctgc ttactaaag gggaagtcc tgggcatctc 360  
cgtgtttctc tttgtggggc tcaaaacctc caaggacctc tctcaatgcc attgggtcct 420  
tggaccgtat cactgggtcca cctcctgagc cctcaatcc tatcacagtc tactgacttt 480  
tcccattcag ctgtgagtgt ccaaccctat ccagagacc ttgatgcttg gcctcccaat 540  
cttgccctag gatacccaga tgccaaccag acacctcctt cttcctagcc aggctatctg 600  
gcctgagaca acaaatgggt cctcagctc ggcaatggga ctctgagaac tectcattcc 660  
ytgactctta gcccagact cttcattcag tggcccacat tttccttagg aaaaacatga 720  
gcatccccag ccacaactgc cagctctctg attccccaaa tctgcatccn tcttcaaac 780  
ctaaaaaaaa aagaaaaaaaa aagtcga 807

<210> 56

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 56

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gctgttggtc tgccaagtat tctgttcat ccaattggat actatgcatg cacagaagct 120  
cctagwaaaa atgggtggct cagcaccacc agatagcagc tggagaggaa gtctcaaagt 180  
gccctacaat gttggacctg gctttactgg aaacttttct acacaaaaag tcaagatgca 240  
catccactct accaatgaag tgacaagaat ttacaatgtg ataggctactc tcagaggagc 300  
agtggaaacca gacagatatg tcattctggg aggtcaccgg gactcatggg tgytggtgg 360  
tattgaccct cagagtggag cagctgttgt tcatgaaatt gtgaggagct ttggaacact 420  
gaaaaaggaa ggggtggagac ctagaagaac aattttgttt gcaagctggg atgcagaaga 480  
atttggtctt cttggttcta ctgagtgggc agaggrgrat tcaagactcc ttcaagagcg 540  
tggcntgggc tttatattaa atgctgactc atctatagga aggaaactac actctgagga 600  
gttggaattgt acaccgcttg atgtacagct tggtacacaa ccttaccaaa gagctg 656

<210> 57  
<211> 794  
<212> DNA  
<213> Homo sapiens

<400> 57  
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agacccccgc gcccggccccc gcccgggaga agagcgccgg caagaggggc ccggaccgcg 120  
gcagccccga gtaccggcag cggcgcgagc gcaacaacat cgccgtgcgc aagagccgcg 180  
acaaggccaa gcggcgcaac caggagatgc agcagaagtt ggtggagctg tcggctgaga 240  
acgagaagct gcaccagcgc gtggagcagc tcacgcggga cctggccggc ctccggcagt 300  
tcttcaagca gctgcccagc ccgcccttcc tgccggccgc cgggacagca gactgccggt 360  
aacgcgcggc cggggcgggg gagactcagc aacgacccat acctcagacc cgacggcccg 420  
gagcggagcg cgccctgccc tggcgcagcc agagccgccg ggtgcccgct gcagtttctt 480  
gggacatagg agcgcaaaga agctacagcc tggacttacc accactaaac tgcgagagaa 540  
gctaaacgtg tttattttcc cttaaattat ttttgtaatg gtagcttttt ctacatctta 600  
ctcctgttga tgcagctaag gtacatttgt aaaaagaaaa aaaaccagac ttttcagaca 660  
aaccctttgt attgtagata agaggaaaag actgagcatg ctcacttttt tatattaatt 720  
tttacagtat ttgtaagaat aaagcagcat ttgaaatcgc aaaaaaaaaa aaaaaaaaaa 780  
aaaaaaaaaa aaaa 794

<210> 58  
<211> 1155  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (432)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<400> 58  
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agacgtttgc aaaanggact aggctcatag taacttcgcc tgataaaca cttgatgcag 180  
atgtttcccc caagcccact attttcttcc ttcraattgct gaaacaaarc tccagaaggc 240  
tggaacatac ctttgtcttc ttgagaaatt tttcccwgat rttattaaga tacattggsa 300  
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gacacataca tgaaatttag ctggttaacg gtgccagaaa agtcactgga caaagaacac 420  
agatgtatcg tncagacatg agnaataata aaaacggrgt tgatcaagaa attatctttc 480

ctccaataaa gacagatgtc atcacaatgg atcccaaaga caattgttca aaagatgcaa 540  
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tcctcaagag tgtggtctat ttgccatca tcacctgctg tctgcttaga agaacggctt 660  
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agtgggcaca cagagaacct cactctgtaa taacaatgag gaatagccac ggcgatctcc 900  
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ctgcctggaa gcctttcatt ttacacgccc tgaagcagtc ttctttgcta gttgaattat 1080  
gtgggtgtgtt tttccgtaat aagcaaaaata aatttaaaaa aatgaaaarw aaamaaaaaa 1140  
aaaaaaaaaa aaaaa 1155

<210> 59

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 59

ggcacgagtg caggggtcaa cccttataaa tgcagtcaat gtgagaaatc cttcagtggg 60  
aaattacgcc ttcttgtaca ccagagaatg cacacaagag agaaaccata tgaatgcagt 120  
gagtgtggaa aagccttcat taggaattct caactcattg tacatcaaag aactcattca 180  
ggagagaaac cctatgggtg ncaatgaatg tgggaaaacc ttctctcaaa aatcaattct 240  
cagtrcacat cagagaacac atacaggaga gaagccttgt aagtgcactg aatgtgggaa 300  
agccttttgt tggaagtcac agctcattat gcatcagaga actcatgtag rtgacaaaca 360  
ttgataattt tacgaaactc tgaaaagtgg attcacaaga gatagaaaca atcatatata 420  
aagagaaact ctgtaatggg aatcatcttg tccntcttcc agaaaantca tantgaatag 480  
aaactttatg ga 492

<210> 60

<211> 1617



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1590)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1592)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1595)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1617)  
<223> n equals a,t,g, or c

<400> 60  
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cagctgctgc aggagcgcga acagctggag cggcgctgcg ccaccttgga gcgggacagc 180  
gggagctcgg gccgaggctt gaggagacca agtgggaggt gtgccagaaa tcaggcgaga 240  
tctccctgct gaagcagcag ctgaaagagt ctcaggcaga gctggtgcag aagggcagcg 300  
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gccgtgcgcg gggctctacag gaggccgccc gagctcggga gctgcagctg gaagcctggt 420  
cccaggagct gcagcgacac cgccaggaag ctgagcagct gcgggagaaa gctgggcagt 480  
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gcttgccggc ccaggtggag cgattgcggg tggagctgca gcgggagcgg cggcgggggtg 660  
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tttcacactg taaatttctt gtacaaaccc aaagaaaaaa ttaaaaaaaa tttttttgtt 1560  
taaaaaaaa aaaaaaaaaa aaaaaaaaaa cncgnggggg ggcccgggtac ccaattn 1617

<210> 61  
<211> 1653  
<212> DNA  
<213> Homo sapiens

<400> 61  
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tgggtgaaga ggggaatcat tagcattctg ggcgttttta tattaatgt tttgtgaata 180  
tgccagaaga tctgccttca acttgtaatt aggcaagata gtaaygcttg atggtaactt 240  
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attccataaa gtatgatgta tgctttggaa gagggatatg agtgatacaa ttgttatata 360  
aatggaatag acaaaccatt tgaatgcatt tttctagggc aaacattttt tgagattttt 420  
gagttaagaa gatttttcgg cttgagcaga agatgtgttt gttttgcatt tttcagctcc 480  
aaggaaatag ccccatggc tttaaaaggc cctgaagttc agatagtagt aggtagtgtt 540  
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ckaccatctg cctacataga attattggac tgtaagctaa aacagactgt aaaagaccta 660  
cttgctaaag cattgcttat tcagtggtat tcagtagata agatctattt cctgatatat 720  
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aagctgggac taaggcttgt gtttcctgcc ttgggtagga ttttcttcta tgcattgttg 1260  
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gatgaaaaat gttcttctat ttatatgatc cca 1653

<210> 62  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<400> 62

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atctctgctc ccaaaccattc accatatgag actgtagacc taataaaaaat aaacataaga 180
ttatgagaat aaaatatcaa taaatatattt atactatctt gcagtgggat aggaattgtc 240
tcactcctgc tgggggtgact ccccatgaac cccaggggctc ttcagttcca aagrggaaaa 300
aggggaacag atggcctcct ccccttcctc actcccctgg gacccaggat tgctccctga 360
aggttttcga gccaccctcc ttcccattcc tcctgggggg ccaaggangn ttaaacagca 420
gggcccttcc ngtgttgccc 440
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<210> 63

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 63

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cacagggtgca gcctcacaga agaaggcttt ccgttcttca ggatttggac tagagttcaa 180
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ctggtgcctc tctgtacatc agccctgggs ttctctgctt gtcagaggga ttaaaagggt 300
ggagggcaga tcctggtaca cccccacag aggacgactt tggatagcag ccacagctaa 360
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agatgtggaa tttcctaata actatccgct agttgtcttc tgggctgtgt ggacctaat 480
gactgcttgt ccagaagca atttaaggag cagtttccag acatcagtca agaacttgat 540
tctccatttg ttttcatctg caaaaatcct caggaaatgg ttgtgaagtt tcctatttaa 600
ggaaatccaa aaatctggaa attggattcc aagatccatc aaggagcaaa gaaggggtta 660
atgaagcaga ataaagctgt ctgacccagg agaaaaggaa ctatacagca tagtggagtt 720
ttgtgtacta aaattgctat ctactggtcc tttggaattg aagtagtaga aacctaaagg 780
cttggcgtca ggcttgaata tctcagaact taaactctta ccaaaatctg tatatttttc 840
ttaaggagtg ggattcctac tttatgtaat ggggtcgaaa tctttgaaca cattatttat 900
aaaaacctgt ttaaaaggtc gacggtatcg ataagcttgg atatcgantt cggcacgagc 960
ccacctctac ctengggggg accggcctgg acgctggtgg ccccgaggacc cagcagagct 1020
gggggaaggg tcagcccccc aaagaaatgg ggggtgcatgc tg 1062
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<210> 64

<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (252)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 64  
ggcagagggga agaggaaggg aggggagggg agcccccttct tcctggtaga tacaaagctg 60  
ggctctggat acccttgaag cagtgcacag cctgtacaac agtccccagc agccctgtct 120  
atccccccagc atctccctgc tagctgctgt tccctctcct cccgctggct gggcctgctg 180  
ccaagctgtg gtgactcagc tgagctggca cattgacccc agcttattgt ttaaaaacca 240  
gcccgaactg gnaatttatg gtttcctatc cccttccaca catttttctg gccacaagcc 300  
aagaaactta tctctggcat cttcagattt cttstatttw attttgggnc ttcccttgcc 360  
tggcaatatg ttcatagag tgggtaagtg agacctgaca ggtgttttca aggataattt 420  
ca 422

<210> 65  
<211> 709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (674)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (684)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (692)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (697)  
<223> n equals a,t,g, or c

<400> 65  
aattcggcag agcgttctc cattctctgt gggttgtgtt gttttcttca tgaattccca 60

agtttactct tggatgatct agttgaagag ctagtggtta ctgatcacac tgtcttctct 120  
ccttgaaatt ggtgcatatt agctgcttct agtcagccct ctgcccaga atccccaaaa 180  
agaaaattgt tagttcaggg attgtagctt tttttttgtt ttaacatgag atatgtgatt 240  
ataataaact tcaagtattc aggaccattt tatggataaa aggagaatct aactttttaa 300  
agttgggaaa atgatttaat attggaaact caagagttac aaattcttac agttatttca 360  
aaactaaagg tttctttaga gctccaaatt tagagctata aatcctatat ccgtaatcaa 420  
atccagtact gataacaatg aacaattgct gaagagtaat attctctctc tctttaccaa 480  
tgtaagcctt agcattggta ctttcttgwa wtatcttttt gcatgccatt atgatcagaa 540  
aaaacaaaaa gctaccacaga aagggcagcc acattctaaa tgataggctt ttacctccct 600  
gagggggctg ctaggtacct acctggatta ggaattcatt tggtaaacia cagggggcct 660  
tttaaatcta aatnaccatt tccnaataat tngtttnccg tttattccg 709

<210> 66

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 66

gctcgacaag aagagaaaaga aggacatgct gaatagcaaa accaaaactc agtatttcca 60  
ccaggaaaaa tggatctatg ttcacaaagg aagtactama gagcgccatg gatattgcac 120  
cctgggggraa gctttcaaca gactggactt ctcaactgcm attctggatt ccagaagatt 180  
taactacgtg gtccggctgt tggagctgat agcaaagtca cagctcacat ccctgagtgg 240  
catcgcccaa aagaacttca tgaatatattt ggaaaaagtg gtactgaaag tccttgaaga 300  
ccagcaaaac attagactaa taagggaact actccagacc ctctacacat ccttatgtac 360  
actggtccaa agagtcggca agtctgtgct ggtcgggaac attaacatgt ggggtgtatcg 420  
gatggagacg attctccact ggcagcagca gctgaacaac attcagatca ccaggcctgc 480  
cttcaaaggc ctcaccttca ctgacctgcc tttgtgccta caactgaaca tcatgcagag 540  
gctgagcgac gggcgggacc tggtcagcct gggccagctg ccccgacct gcacgtgctc 600  
agcgaagacc ggctgctgtg gaagaaactc tgccagtacc acttctccga gcggcagatc 660  
cgcaaacgat taattctgtc agacaaaggg cagctggatt ggaagaagat gtatttcaaa 720  
cttgtccgat gttacccaag gaaagagcag tatggagata cccttcagct ctgcaaacac 780  
tgtcacatcc tttcctggaa gggcactgac catccgtgca ctgccaataa cccagagagc 840  
tgctccgttt cactttcacc ccaggacttt atcaacttgt tcaagttctg aatcccagca 900  
catgacaaca cttcagaagg gtccccctgc tgactggaga gctgggaata tggcatttgg 960  
acacttcatt tgtaaatagt gtacatttta aacattggct cgaaacttca gagataagtc 1020  
atggagagga cattggaggg gagaaatgca gttgctgact gggaaattta gaatgtgaac 1080  
ttctcactag aattgggtatg gaaaagcaaa atactgtaaa taaacttttt ttctaacaat 1140  
ttgccagcaa gactataagg gcaataattc tatttcagcg gtgaaaatgg agtcctctta 1200  
atggtcacag aaactctctt atagttccct aggaagaaaa aggcaaaact caaatacaaa 1260  
ataggacgct ttgtttacaa tgtgaaaatt tgtttagaaa ag 1302

<210> 67

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 67

aattcggcac gagcttctgt tgggtgttatt ttcaattcta tttccagtgc cacaatagag 60  
tgatatttaa gcaactccta caggcgaagg ccctgcagtt cctccagatt gacagttgca 120  
gactgggcag tgtcaatgag aacctctcag tattgctgat ggccaaaaag tttgaaattc 180  
ctgtttgccc ccatgctggg ggagttggcc tctgtgaact ggtgcagcac ctgattatat 240

ttgactacat atcagtttct gcaagccttg aaaatagggg gtgtgagtat gttgaccacc 300  
tgcattgagca tttcaagtat cccgtgatga tccagcgggc ttcctacatg cctcccaagg 360  
atccccggcta ctcaacagaa atgaaggagg aatctgtaaa gaaacaccag tatccagatg 420  
gtgaagtttg gaagaaactc cttectgctc aagaaaatta agtgctcagc cccaacaact 480  
tttttctttc tgaagtgaag gggcttaaaa tttcttgga atagttttac aaaaatggat 540  
ttaaaaaatc ctaccgatca agatgagttc agctagaagt cataccaccc tcaggaatca 600  
gctaagtaat tattacttga ttcttttagc aaatcaatgc acgttatcct acttaatcct 660  
taaataagtt tagatttaac taacccaaag tccaggagga tgttcttaca aaaatagcta 720  
tatcaagggc tggcacctag acattaaact gtaatttgaa aataagcaac atgttgcata 780  
acttgttgga ataattcctt gttctgttta acacttgctc taaattagca gaataaaaat 840  
agtcgtgcaa caccgggggt atctgggtatg caacgaaggg raaaatattt cactgattaa 900  
ccccgaagtg gttttgcatc ttttccttgc ttaatctaag catattatta gagaagtcac 960  
accatgctga agctaattgag ggcaaaatgg tagtccatag attattttta aataaccctt 1020  
taaggttata aaagtttaaa aaaaaa 1046

<210> 68

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 68

caagagaaga aattatgaaa gggcgtgaat accaagaggc aggnatttg gggccatctc 60  
agaggctgcc caacacaggc tactcttttg ccccgatga ttcattgttc ttccaaatgc 120  
aaaatgcccc gtcccaagat ctccaaaagt cttatcccat tataggatta gctcagagtt 180  
cagaacctta tcatctaaag ttccagggtg aggttaaggct tttgggtgta gttattttat 240  
tacagctcct agcacacttc tagtggtata ctaatgcctc ttctgtatag ttcacttgga 300  
aataaatgat ntaggtactt tgatccatat ggagttctgt gtaggaagat caacctagat 360  
ctgatgttag ctggtaaaca ctgtagtggt aaaaaggcac tgnnttatga tagctctttt 420  
tgacagtgcac tgggattatg gggcaaatgg taaatggcat gcaattgaga tcagtattag 480  
gttattaatt gaactggaat c 501

<210> 69

<211> 581

<212> DNA

<213> Homo sapiens



<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 69

```
aattcggcac gagggaaaga aggccatgta ggggcttgct ttagtcatcc actgctaact 60
cattaactat taattcaagc aatatgtatt atagaaccgt tttgtgtagc attggaatat 120
tgtccatttt gtaagtcatt gtgaatgtnc ttaattatca gcttgaaggc atttttgtat 180
taaaagttga cattgaagaa cctaagtggg tgatgggatt tggggccagt agtgaaagta 240
tgtttcctct aaaatatattc cctaaacagt ggtatacatg gttattttat tatgagattt 300
gtatatgttc tgtgtttctc tgtgaacaat gtttcagtct ctctgtcacc atatgtaagg 360
ggaagtcacac aaatatagac tacattgcac aaaactaaaa ttgttaatta caagaaaata 420
taggtgctta ctttttgaag gtttattaat acatatgggt gtcacaatac gtatatatga 480
taaagtggtg acatatacag atgttttatgg tgtataaatt tttctatacc caaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccccccc a 581
```

<210> 70

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 70

```
tccaaacaga gggagcagct atttaagggg agcaggagtg cagaacaaac ragacggcct 60
ggggatacaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc 120
cggggcagaa gttgagacca cccagcagag gagctaggcc agtccatctg catttgtcac 180
ccaagaactc ttaccatgaa gaccctccta ctgttggcag tgatcatgat ctttggccta 240
ctgcaggccc atgggaattt ggtgaatttc cacagaatga tcaagttgac gacaggaaag 300
gaagccgcac tcagttatgg cttctacggc tgccactgtg gcgtgggtgg cagaggatcc 360
cccaaggatg caacggatcg ctgctgtgtc actcatgact gttgctacaa acgtctggag 420
aaacgtggat gtggcaccaa atttctgagc tacaagttaa gcaactcggg gagcagaatc 480
acctgtgcaa aacaggactc ctgcagaagt caactgtgtg agtgtgataa ggctgctgcc 540
acctgttttg ctagaaacaa gacgacctac aataaaaagt accagtacta ttccaataaa 600
cactgcagag ggagcacccc tcgttgctga gtcccctctt ccctggaaac cttccacca 660
gtgctgaatt tccctctctc ataccctccc tccctaccct aaccaagttc cttggccatg 720
cagaaagcat cctcaccaca tcctagaggc caggcaggag cccttctata cccaccaga 780
atgagacatc cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt 840
aaccaaagaa gctgtactcc ggggggtctc ttctgaataa agcaattagc aaatcawrwa 900
aaaaaaaaaa naaaaaagaa aaaaagtttt ggcctaaatg agtcgtatta cagttgacgc 960
ggccggcgaa tttagtagat ggtgtaattc gacccgagaa attccggaac cggaactctg 1020
aggggtgaca agtttcccca agagcggcgg attaaggctt gggcggacaa agggcg 1076
```

<210> 71

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 71

```
gcccacgcgt ccgaggaggg ccgcstttcc ggtctgggtc ccsgagagga ctgccttgct 60
cacctgtccc ctcggcgcgg ccccggggag ctcccgagag gcccmmggga tcgctggccc 120
tccgaactcc acagcaatga gcaagttggg caagttcttt aaagggggcg gctcttctaa 180
gagccgagcc gctcccagtc cccaggaggc cctgggtccga cttcgggaga ctgaggagat 240
gctgggcaag aaacaagagt acctggaaaa tcgaatccag agagaaatcg ccctggccaa 300
gaagcamggc acgcagarta agcgagggat cwgmawaaa tagatgnttt gatgcaagag 360
atcacagagc aacagg                                     376
```

<210> 72

<211> 374

<212> DNA

<213> Homo sapiens

<400> 72

```
aattcgacsa gccagggcac cctgcccattg tatcccammc agagggagca gaaccagcgg 60
tgtaactact gtgcttgaca cccagggcag gtcttttttt aactcaccga tcttccatgc 120
aacaaaattg ttttctgtga aaagcaggaa atgaataaca acagcgtagg tactccactt 180
caaatttccc aagaaattca gaagaattgt gaacaagttg ctggttttcac aatactgcaa 240
gacactgcaa gttattccaa gttcctacag gacaacgatg cacaattatt tacttactta 300
tgttttaaata tacctatcag tttgactttc atcctttggt gacattctaa taatttatgt 360
aaataattat tcag                                     374
```

<210> 73

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<400> 73

```
aattcggcag agctgcattg tcttttaggg ccaatggact tggaggcata gagattttat 60
aactactgcc agaaccctaaa tattgccagt sggcctcttc tgctgctgtt gctagctgtc 120
ttcttctggg ggaaatgggt tgggttctaa atatgaatta acacagggtc gtcttcgatg 180
aattcagcac aaaatgttct cagcaattga acactcggag ngaagtgtta ggcatttagt 240
gcagactcat agaatagcag gacagggagg gatttggttc tgggcaagca ggagatgggt 300
atgaacatct gtcttttgag acctgccgag gtggcaatga aggtagaggc ccctgtgttg 360
```

aggtctttat tcaagaggct gtggtcctt tgggacttaa catagcatcc nttagacag 419

<210> 74

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<400> 74

gcaggcgact tgcgagctgg gagcacttta aaacgctttg gattcccccg gcctgggtgg 60  
ggagagcgag ctgggtgccc cctagattcc ccgccccgc acctcatgag ccgaccctcg 120  
gctccatgga gccnggcaat tatgccacct tggnatggag ccaaggatat cgaaggcttg 180  
ctgggagcgg gaggggggcg gaatctggtc gccactccc ctctgaccag ccacccagcg 240  
gcgcctacgc tgatgcctgc tgtcaactat gccccttgg atctgc 286

<210> 75

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<400> 75

```
aggtagaaaa gcgagcagcc gtcctttcac agcctcagaa agtgctcgt tcccttcggg 60
ggctttcgcg aatcccagagg caatctcgna ggcggtatth gacctgtcca aagacgactt 120
gatacctcta taatgtaaca gaaaagggtca gaaaatatta agcaagtaga agtggtggagc 180
atattaagca agatgaacat ctcgggaagc agctgtggaa gccctaactc tgcagataca 240
tctagtgact ttaaggacct ttggacaaaa ctaaaagaat gtcagtatag agaagtacaa 300
ggttttacaag taaaagtaac caagctaaaa caggaacgaa tcttagatgc acaaagacta 360
gaagaattct tcaccaaaaa tcaacagctg aggggaacagc agaaagtcct tcatgaaacc 420
attaaagttt tagaagatcg gttaagagca ggcttatgtg atcgctgtgc agtaactgaa 480
gaacatatgc ggaaaaaaca gcaagagttt gaaaatattc cggcagcaga ntcttaaact 540
tattaccgaa cttatgaatg gaaaggatan tctaccggga ggaattaaaa gctttctgga 600
caactccgcc ggaattgnga tgntcaccgc ttc 633
```

<210> 76

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<400> 76

```
agcacaagtt caggaccagc ctgcgcaaca tagcaagatc cccatctnta caaaaaaaat 60
aaacaattag ccagggcata gtggcatatg cccattgtcc catctactct ggaggctgag 120
gcggggaggtt cgangttcac agaaccacca taaccatcc agctagccag gtagaaggcc 180
tccaggtccg acgttgcatc ccccagggtc tgatgctgtc tgcaatcttc atccctagga 240
agwagagcta aaaatg 256
```

<210> 77

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 77

```
agcagcaagg ccaagcatgc aagaktcacc atccaccctg gccatgatgc agggcctcct 60
ttgctggacc cgcagccctg caggacagag actggcagcg caccgtcatc gccatgaatg 120
ggatcgaagt aaagctctcg gtcaagttca acagcaggga gttcagcttg aagaggatgc 180
cgtcccga aaacagacagg gtcttcggag tcaagattgc tgtggtcacc aagagagaga 240
gggtccaagg gccctacatc gtgcgccagt gcgtggagga gatcgagcgc cgaggcatgg 300
aggaggtggg catctaccgc gtgtccgggtg tggccacgga catccaggca ctgaaggcag 360
ycttcgacgt caataacaag gacgtgtcgg tgatgatgag cgagatggac gtgaacgcca 420
tcgcaggcac gctgaagctg tacttccgtg agctgccga gccctcttc actgacgagt 480
tctaccccaa cttcgcagag ggcacgctc tttcagacc gggtgcaaag gagagctgca 540
tgctcaacct gctgctgtcc cttgccggag caaaccttgc ttcamctttc cttttccttt 600
ttggraccam ctgaaaaagg gttggcagag aaggaggca gttcattaag ttccttgcaa 660
aaaacttngc canggttttt ttggcccaa gggt 694
```

<210> 78

<211> 2562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<400> 78

```
ggcacgagtg tagacgaagg ctccatatca ccccggaactc tttcagccat taagagagct 60
cttgacgatg acgangatgt aaaagtgtgt gctggggatg atgtgcagac gggagggcca 120
ggagcagaag aaatgcgtat aaacagctcc accgagaaca gtgatgaagg acttaaagtg 180
agagatggaa aaggaatacc gtttactgca acacttgctg catctagtgt gaactctgca 240
gaggagcacg tagccagcac taatgagggg agagagccca cagactcagt tccaaaagaa 300
caaatgtcac ttgttcacgt ggggactgaa gcctttccga taagtgatga gtctatgatt 360
aaggacagaa aagatcggtt gcctctggag agtgacagtg ttagacatag tgacgcacct 420
gggctcccga atggaaggga actgacaccg gcatctycaa cttgtacaaa ttctgtgtca 480
aagaatgaaa cacatgctga agtgcttgag cagcagaacg aactttgccc atatgagagt 540
aaattcgatt cttctcttct ttcaagtgat gatgaaacaa aatgtaaacc gaattctgct 600
tctgaagtca ttggccctgt cagtttgcaa gaaacaagta gcatagtaag tgtcccttca 660
gaggcagtag ataagtgtga aaatgtgggt tcatttaatg cttaaagagca tgagaatttt 720
ctggaaacca tccaagaaca gcagaccact gaactctgag gccaggattt aatttccatt 780
ccaaaggccg tggaaccaat ggaaattgac tcggaagaaa gtgaatctga tggaagtttc 840
attgaagtgc aaagtgtgat tagtgatgag gaacttcaag cagaattccc tgaaacttcc 900
aaacctccct cagaacaagg cgaagaggaa ctggtaggaa ctaggaggag agaagcccct 960
gctgagtccg agagcctcct gagggacaac tctgagaggg acgacgtgga tggtagacca 1020
caggaagctg agaaagatgc ggaagattcg ctccatgaat ggcaagatat taatttgag 1080
gagttgaaa ctctggagag caacctctta gcacagcaga attcactgaa agctcaaaaa 1140
```

cagcagcaag aacggatcgc tgctactgtc accggacaga tgttcctgga aagccaggaa 1200  
ctcctgcgcc tgttcggcat tccctacatc caggctccca tggaagcaga ggcgcagtgc 1260  
gcatcctgga cctgactgat cagacttccg gaaccatcac tgatgacagt gatattctggc 1320  
tgtttggagc gcggcatgtc tatagaaact tttttaataa aaacaagttt gtagaatatt 1380  
atcaatatgt ggactttcac aatcaattgg gattggaccg gaataagtta ataaatttgg 1440  
cttattttgt tggaagtgat tataccgarg aataccaact gtgggttggtg taaccgccat 1500  
ggaaatttctc aatgaattcc ctgggcatgg cctggaacct ctctaaaaat tctcagaatg 1560  
gtggcatgaa gctcaaaaaa atccaaagat aagacctaat cctcatgaca ccaaagtga 1620  
aaaaaaatta cggacattgc aactcaccctc tggttttctt aaccagctg ttgccgaggc 1680  
ctacctcaaa cccgtgggtg atgactcgaa gggatccttt ctgtggggga aacctgatct 1740  
cgacaaaatt agagaatttt gtcagcggta tttcggctgg aacagaacga agacagatga 1800  
atctctgttt cctgtattaa agcaactcga tgcccagcag acacagctcc gaattgatct 1860  
cttctttaga ttagcacaaac aggagaaaga agatgctaaa cgtattaaga gccagagact 1920  
aaacagagct gtgacatgta tgctaaggaa agagaaagaa gcagcagcca gcgaaataga 1980  
agcagtttct gttgccatgg agaaagaatt tgagctactt gataaggcaa aacgaaaaac 2040  
ccagaagaga ggcataacaa ataccttaga agagtcacatc agcctgaaaa gaaagaggct 2100  
ttcagattct aaacgaaaga atacatgcgg tggatttttg ggggagacct gcctctcaga 2160  
atcatctgat ggatcttcaa gtgaasatgc tgaaagttca tctttaatga atgtacaaag 2220  
gagaacagct gcgaaagagc caaaaaccag tgcttcagat tcgcagaact cagtgaagga 2280  
agctcccgtg aagaatggag gtgcgaccac cagcagctct agtgatagtg atgacgatgg 2340  
agggaaagag aagatgggtc tcgtgaccgc cagatctgtg tttgggaaga aaagaaggaa 2400  
actaagacgt gcgaggggaa gaaaaaggaa aacctaatga aaaaatatgt atcctctata 2460  
attagttatg acagccattt gtaatgaatt tgtcgcaaag acgtaataaa attactggt 2520  
rgcacggtaa aaaaaaaaaa aaaaaaaaaa aaaaanaaac aa 2562

&lt;210&gt; 79

&lt;211&gt; 1610

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

aattcggcac agggaaacat tctggtaatt ttagagatc tgttggcatc tctgcttcac 60  
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gctacagttg caaacaatg tatagttttc aaaaagaagc aacttttttg cccccagtt 180  
tattcttagt ttccagccca cgccttgoga tagsratagg catagtgatg gcctcaattc 240  
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gcagaatctg ccatatgagt aatagaagtg agcaggccca ggactcccta agtcaagaaa 1260
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tcagcgatgc ccccatgtta tgaatgggga aaagtgcact gaaggggttca tagtgaagaa 1380
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attgttaaat ctaggtggtg ggtatgtggg ttatatgtga catgattttt aacttgtctg 1560
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<210> 80

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (997)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1021)

<223> n equals a,t,g, or c

<400> 80

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aatgctaattg naggtctggca ggacgcaaca actccatctt ctgtgacttc tcctacagaa 180
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ccaccatcta cagctttact gtaaaacctt gtcttattcg agaacttggg aaatctgttt 360
ttaaggaat cataatcatt tgtatttata cttaaaaaca cacaatgtta aaaaaataa 420
agcactttat ccaattaggc caagatttaa cattgttgac agtcctgtag ctattttatc 480
ataatttatt atcaatattt tacattaatg gtttcacagt tgccaattac ttggccttaa 540
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cacctaaatt gaacttcttg catatttcca ttactgactt ggattgtctt tctttcatat 660
cactaatgga gttggaataa agagctgttt gcctatccct gttaatgatg gttgtgttta 720
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tgatccgtct ggggttttac ggtgtgcact ggggtgctgca cagacttgtc aagggttgcy 960
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ntattttaa ac atcccaccaa ccaaacac 1048

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<210> 81

<211> 1136

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<400> 81

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gcactgatat ttgtcattga ctcacaggat gattacatgg aagccctggc caggctccac 180
ctcacggtga ccagggccta caaagtgaat actgacatca acttcgaggt gtttattcat 240
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gcaaacgatg accttgcaga tgctggatta gaaaaaatc acctcagctt ttatctgaca 360
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gcatttctat ttgatgtggt cagtaaaatt tatattgcaa ctgatagtag tccggtggat 540
atgcaaacct atgagctctg ctgtgatatg atagatgtgg ttattgacat ctcttgtatt 600
tatggtctca aagaagatgg agcaggaacc ccctatgaca aggaatccac agccatcata 660
aagcttaata atacaaccgt gctttattta aaagaggtga caaagttcct ggctctcgtt 720
tgctttgtca gagaggaaag ctttgaaaga aaagggctaa ttgactataa ttttcattgc 780
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ccatgttgca ctaaaggaag aggaagaagg agattgggac acataccatt gatttggtgt 1020
taaaaaaaaa aaattcctgc aaccctcttg atcttctctt ttataaataa agtaagcact 1080
ttgaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg ncccc 1136
```

<210> 82

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 82

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gggagagacc caccgaccct gtggggctgg tccctacatc tggcgctctg acgtggggct 120
ctccctcgct gtgtgaagtt gcaccctgag tgcgggatca gcgaggagt tcaacgagag 180
attcctgagg attgcagtct ataaacttgg tgcaggcggc tgaccccgca gctyaacaag 240
atcaagaggc tgataatcaa gccctcagc ccgaaactca ggctgctcag ggaaaag 297
```

<210> 83

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 83

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gggttcggcg gttgctgtra gagcgggctt cccaacacca tgccgtccgc cttctctgtc 120
agctctttcc ccgtcagcat ccagccgtg ctcacgcaga cggactggac tgagccctgg 180
ctcatggggc tggccacctt ccacgcgctc tgctgtcttc ctcacctgct tgtcctcccg 240
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atacatcaat gaggcggctg cgatgaactg gagattatct tcgaaatacc agtatttcga 360
ctccaggggg atgttcattt ctatagtatt ttcagcccca ctgctgggtga atgccatgat 420
cattgtgggt atgtgggtat ggaagacttt gaatgtgatg actgacctga agaatgcaca 480
agagagaaga aaggaaaaga aaaggagaag gaaagaagac tgagggggcag cagctgcttg 540
gagtttgctt ccttcccgtc caccagtgct agctcccagt gctgcagtgt gcgtggcgtg 600
ggcatccttc cagctgactc atggtttgaa aaaccgttgt tttattttaa tatccacagt 660
ggtagggcac acactgaagt tgcttttcag ccagcactga atgtatccat caggacatgc 720
gtcttcaygt gcctgatctt tgtagtcagg ctgtgggaac ggtctctgca gagcttcata 780
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ccatgccctc ctcctcgtgc tgtgttttct agtgcctgcc acagttcgcg gtagaggggt 960
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gtataacatt ttcaccatct gatatgggtt ggctttgtgt cccaccccaa attgcatctc 1860
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<210> 84

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (505)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 84

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gccgtnacac cccacacact ccagcctcgg cccactcct tgggctctta aggtcctgcc 120
tcaagaacca cttcctgagt cttagtgtat gtgtgtacaa aagaatgaaa gaagtctcta 180
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cgcgggacac accaagccca ttccggatct tgctcttctt gaccatggyt ggcaggytgt 300
ggaggaggas cggagagcag aagaaaggag tattcatcag gttccttatt gtgctgccac 360
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ccctytgyta gcaggcagaa ccgagttytg gccacamtgt gaaggaaagg cagaagcctg 480
cgktggcary tggtttaagc tcagnnggca gggaaaggga agaggagaat ggttttcacg 540
gagcagaagg ttgtgctcaa ggtggacctt ggagaataaa ggggagagct ccagggaaca 600
g 601
```

&lt;210&gt; 85

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

```
cgcgtcgacg ttctctctaa ctctgcccag aaacrgctct cctcaacatg agagctgcac 60
ccctcctcct ggccagggca gcaagcctta gccttggtt cttgtttctg ctttttttct 120
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ccccagaagg tgtcagcatc tggaatccta tcctactctg gcagcccatc ccggtgcaca 480
cagttcctct ttctgaagat cagttgctat acctgacctt tcaggaactg ccct 534
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&lt;210&gt; 86

&lt;211&gt; 1037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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cagcttggtg cacaacctaa caaaagagct gaaaagccct gatgaaggct ttgaaggcaa 120
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gaaagcaaaa ttgggatctg gaaatgattt tgaggtgttc ttccaacgac ttggaattgc 240
ttcaggcaga gcacgggtata ctwaaaattg gggaaacaaa caaattcagc ggctatccac 300
tgtatcacag tgtctatgaa acatatgagt tgggtggaaa gttttatgat ccaatgttta 360
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cacttttttc tgcagtaaag aattttacag aaattgcttc caagttcagt gagagactcc 600
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tctatgctcc aagcagccac aacaagtatg caggggagtc attcccagga atttatgatg 780  
ctctgtttga tattgaaagc aaagtggacc cttccaaggc ctggggagaa gtgaagagac 840  
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aagaggattc tttagagaat ccgtattgaa tttgtgtggt atgtcactca gaaagaatcg 960  
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<210> 87

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<400> 87

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gctatttcat acctaatgag ggagttccag gagattcaac caggaaatgc atggatctca 180  
aaggaaacaa acaccaata aactcggagt ggcagactga caactgtgag acatgcactt 240  
gctacgaaac agaaatttca tgttgcaccc ttgtttctac acctgtgggt tatgacaaag 300  
acaactgcca aagaatcttc aagaaggagg actgcaagta tatcgtggtg gagaagaagg 360  
acccaaaaaa gacctgttct gtcagtgaat ggataatcta atgtgcttct agtaggcaca 420  
gggtccccag gccaggcctc attctcctct ggcctctaata agtcaatgat tgtgtagcca 480  
tgcctatcag taaaaagatt tttgagcaaa maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggngggc gctctag 597

<210> 88

<211> 474

<212> DNA

<213> Homo sapiens

<400> 88

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ggtgwgacac agcaaccctc agccaccagc tgttttccat ctgccggcct tcctggggga 180  
gagtccttc cagctgtagc ccctgtctat gggaaaagtc tcatgtcctt ttcattcttc 240

cccactgcac actgtctctc accctagact ataattcaag tgaatttgac ctccatttat 300  
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ggatcactag actaaggggt agaaatgtgg agatgggagt aactttctgc atgtctttgc 420  
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<210> 89

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 89

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acgacctttt atattgtgag agtgttcaca atttcacttt accctcctgg gccactgagg 180  
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acaagcagaa agagaaatct aggctccaag ggggtgtcct ggtcaatgaa atcctcaatc 300  
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acactactgt gagtggccta cagatggcgc tagatgttta caacggactc ctccctccct 420  
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actaycggaa tgagacgcag cacgagccgt atcccccat gctacctggc tgcagcccca 540  
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ggccacacag gatcttttgt atttaaggat tctgagattt tgcttgagca ggattagata 1020  
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gttttctcca ctggaaaact gctactatct gtttttatat ttctgttaaa atatatgagg 1260  
ctacagaact aaaaattaaa acctctttgt gtcccttggt cctggaacat ttatgttcct 1320  
tttaaagaaa caaaaatcaa actttacaga aagatttgat gtatgtaata catatagcag 1380  
ctcttgaagt atatatatca tagcaaataa gtcactctgat gagaacaagc tatttgggca 1440  
caacacatca ggaaagagag cmccacgtga wggagttyt ctagaagcty cagtgataag 1500  
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<210> 90

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)



<223> n equals a,t,g, or c

<400> 90

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tggtgcccgg gctgggatgg aactccctgtg cttagcggt cctcatgcct cggcttccca 120
aagtgcctgag gttgcagcta tgagccaccg caccagcct acattccttc ttatcaccga 180
gaaacagggt gatcttcaca ggtgtaatga gtatgaagg agtgccataa agatattttt 240
tattttttat ttattttatt ttttaattta tttttttttt tttgggatgg gngtcttgct 300
ctgg 304
```

<210> 91

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<400> 91

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tccttccacc tcattctccc caagaactgg gattacaggc atgagcaact gcacctgggc 120
catatgcttc ttatagttga agaagtgaag ggtcaatgac tttactaaaa tactattaaa 180
gtaataaagc taggacttag cccaattat tcctccttaa agtccaatac tttcaatata 240
ttaagttgct ctttattata tgaattctaa atatcttttt taccttttgt tatctaattct 300
ggaaatccta tataaatgta taattttata catgctgact gatatccyct ctagtcttgc 360
tatactagg 369
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<210> 92

<211> 315

<212> DNA

<213> Homo sapiens

<400> 92

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gctttttacc ctctccaaac cttctaacc tagcttcatg aatttatgtt actcgcctag 60
agggtctctc ataaatatat acatttgtaa cttctgttta atataaataa atcattcttc 120
atagcaagga ttctggcatc agttggagat tctttggatg gatgtgctcc catggagttt 180
ctattttaat gtactaacia cttatgactc gtctatctgt agtatcaatt atatccacta 240
tcacagtaac agtcaccact taatatgyat agratatctc attttaccaa gcaattatgg 300
tatctctgat ttata 315
```

<210> 93

<211> 701

<212> DNA

<213> Homo sapiens

<400> 93

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aacattacaa gggctttttat aaaaaaccct ttgttcatat ttcttccctt taaaatatgt 60
aatgtcaaaa atgactcacc ttttaaaaat tatgcatgaa aacagggtgg aaacattcag 120
taatagcta tttctccaac atcaagacaa ctaaaacaaa tgataaaaat gtttattttt 180
```

acactccagc atatcgggtg agtttttaggg atgtgtatga atattttaa attttaattt 240  
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atrrcatatt aatttagaaa attcctgtgt ttacttatat tttaaattgt gaaatggatc 480  
caatcattag aacagagaga atagttcttt gaaactgaaa tacttttagt ttactgacct 540  
tgtgtaaaga taatatgaag aaccagcttc caaaagaaac cagcatatgg cactataaac 600  
tatttcattt gagcaccatt ctttaccatg gatataataa ttatgtatta tagtggagtg 660  
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<210> 94

<211> 459

<212> DNA

<213> Homo sapiens

<400> 94

cgggcaactc tctggcatcc ttaatatctt tctatagaaa ttgtgatgaa aqaacagata 60  
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aaaaataaaa cttgggtttg tcttaaataat ccttgctggg cctattatac ataaaaaaag 180  
gggccacagc ccatttgcaa ggcttctgaa tgaactccat tcattctgta cttggaaatg 240  
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gaagaagagc caagagacca ttatgaaaac tctagtaagt tctctgggtg attatataat 360  
gctgtawtca ttgatcatat tkctgtattt aaataagtac atttttttaa acatcataaa 420  
gtggatcagt aatgctgtaa tatcacattt catgtatta 459

<210> 95

<211> 2589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2568)

<223> n equals a,t,g, or c

<400> 95

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cagtgactga ggcctggacc cagaggtgga ccaggcatct cctggccacc tgtgacctg 120  
gaagaagcga gtcagtggcc cgttcaacct gctctgcagc tgctataaat agcctccctg 180  
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gagcgttact cagtgtaca gaggagatgc acacgtcccc actatgttct gtcttgagaa 300  
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tggcactggg ctagagaggc accttcctgc gtgaatcctg tgcggcaggt cttattgcca 420  
taataagtca catcaaagac actgctgggtc ataaaacact gttttacata ccatagggaa 480  
aaacgctgcc aatcttaact aagatgctac aactgtacag ttccttccaa tcagagatgt 540  
tcacgtgtga aaaaaaaact gtgctactta caatctatga aagctggtrt tatcccactt 600

ggcaggtaag ggaactgagg tectgtgagt gaagtgacct catgatcaca caacaggaga 660  
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tggctccaag tcccaggaag ctcgagactg tgagttttct cccttgaaac tcacctggag 780  
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agggaattc 2589

<210> 96

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<400> 96

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ggggctggtg gwgactctgc ctacagcacg gggcrtgtgt ccaggctgar cccgctgagc 180
gtcgacacag tcgctgttgg cctgggtgtcc agcgtgggtg tctatcccgct ctacctggcc 240
atsctctttc tcttcyggat gtcccgagc aagggttatca atactctggc tgacctcgt 300
catcgtggga ctgactttgg tggaaagtcct tggttactta tcattaactg tgtttctgag 360
aagttataaa tntggcatct cctnctgcac aacttacctt tgggttataa taatctggtg 420
accatcgtca cgttggactg antttggggg aagcctt 457
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<210> 97

<211> 516

<212> DNA

<213> Homo sapiens

<400> 97

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gctggtctta aactcctggc ctcaagcaat ccttctgcct tggcccccca aagtgctggg 120
attgtgggca tgagctgctg tgcccagcct ccatgtttta atatcaactc tcaactcctga 180
attcagttgc tttgcccag ataggagttc tctgatgcag aaattattgg gctcttttag 240
ggtaagaagt ttgtgtcttt gtctggccac atcttgacta ggtattgtct actctgaaga 300
cctttaatgg ctccctctt tcctctctg agtatgtaac ttgcaatggg cagctatcca 360
gtgacttggt ctgagtaagt gtgttcatta atgtttatth agctctgaag caagagtgat 420
atactccagg acttagaata gtgcctaaag tgctgcagcc aaagacagag cggaactatg 480
amaagctctc ctgccatctc caagcccact tttcag 516
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<210> 98

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<400> 98

ggagaccgcg cgcgggacgg ggagggaatgg cctgtccgcg ttaaaccatc acaagccatg 60  
ggtgcggaag ggccacgcgt ccccagtag gagaatgact ccgattcgtg accctcagcg 120  
ccggtgcatg tcgatcttgg ccccagggc tgtgatgcag ccagccaggt ctcagggaga 180  
gggaacccag aagcctggca tgcctggccaa aggagtcaag gaaacttttg agctatttac 240  
agcttgtagc aattatgtaa agnatactcc nctgaacaaa atttggagca tgtttgttnc 300  
tctctacctg attt 314

<210> 99

<211> 679

<212> DNA

<213> Homo sapiens

<400> 99

agttgttccg tgtaggctgt tgttgactct cgtatgaaag cccacgcgat ccaagtgcc 60  
tgcaggtttt ggtccaggga aaagttggtc tctgcagatg actgtaaag actacctgga 120  
ggtcgattaa agtgcggtac tgcgggatc arccgatttc cttcttcctc tgactgccc 180  
gaaatatcag ccaaaggcca gcgttctaag gacatatgga attggctatg gataattcat 240  
atgctttcaa tcaacgaagc acatgtaatg gaattccatc tgajaagaaa aacaacttcc 300  
ttgtatcaga agatcatgga caaaaaatct taagtgtact acagaatttt agagaacaaa 360  
atgtctttta tgatttcaaa ataattatga aagatgaaat aatcccgtgt catcgttgtg 420  
tgtagcagc atgcagtgac tttttcaggg ctatgtttga agtaaacatg aaagaaagag 480  
atgatggaag tgttaccatt actaatttgt cctccaaggc agtaaaagca tttctcgatt 540  
atgcctatac tggaaaaaca aaaataacag atgataatgt ggaaatgttc ttccagttgt 600  
catcatttct tcaagtttcc ttcctatcca aagcttgcag tgacttttta ataaaaagta 660  
ttaatcttga aaaaaaaaaa 679

<210> 100

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 100

aattcggcac gagtctcacc cctcggagac gctcgcccga cagcatagta cttgccgccc 60  
agccacgccc gcgcgccacc accatgctag gtaacaagcg actggggctg tccggactga 120  
ccctcgccct gtcctgctc gtgtgcctgg gtgcgctggc cgaggcgtag ccctccragc 180  
cggacaaccc gggcgaggac gcaccagsgg agggacatgg ccagatacta ctcrgcgtg 240

cgacactaca tcaacctcat caccaggcag agatatggaa aacgatcyag cccagagaca 300  
ctgatttcag acctcttgat gagagaaagc acagaaaatg ttcccagaac tcggcttgaa 360  
gaccctgcaa tgtggtgatg ggaaatgaga cttgctctct ggccttttcc tattttcagc 420  
ccatatttca tcgtgtaaaa cgagaatcca cccatcctac caatgcatgc agccactgtg 480  
ctgaattctg caatgttttc ctttgtcatc attgtatata tgtgtgttta aataaagtat 540  
catgcattca aaaaaaaaaa aaaaawaaaa aaaaaaaaaa acnngggggg gggcccccgn 599

<210> 101

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<400> 101

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gcgggaggag ataagcaagg acctcagagc cacactgaac gccttcctgt accacatggg 120  
ccaacacagc aacaaattca tgctggtcct ggccagcaat ctgcctgagc agttcgactg 180  
tgccatcaac agccgcattg acgtgatggt ccacttcgac ctgccgcagc angaggagcg 240  
ggagcgcctg gtgagactgc attttgacaa ctgtgttctt aagccggcca cagaaggaaa 300  
acggcgcctg aagctggccc agtttgacta cgggaggaag tgctcggagg tcgctcggct 360  
gacggaggggc atgtcggggc gggagatcgc tcagctggcc gtgtcctggc aggccacggc 420  
atatgcctcc aaggacgggg tcctcactga ggccatgatg gacgcctgtg tgcaagatgc 480  
tgtccagcag taccgacaga agatgcgctg gctgaaggcg gaggggcctg ggcgcggggg 540  
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cccctcctac ccctgccttg ccggccccctg cacatttagg atatgctcct ggatggggac 660  
tgggctgtgc ccagggcctc tgtccccag gatgtcttgt ggtggcggtc ggccgttctg 720  
ccccccaggg caccctctgt tgtaggcact ggctagggag gggcaggcct ccttcctgcc 780  
cctcgagaca ctcttgggag atgcattttc cgtctggctc acagggggag ggtgaggcct 840  
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gaaggagtgg ggcaggcggg gtctttgttc tcggctccca cagcagagcc aggtgagggg 960  
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gggccacgga acccggcagg ggtgtctgag gccgccctgt cagctggccg gtccaagcct 1080  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1189

<210> 102

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<400> 102

gccaatttga tgaagtgcaa agttcaggcc ggtatgattt tnagtgtctg caaagataaa 60



agcttcgatg atgaagaatc agtggatgga aataggccat catcagctgc atcagccttc 120  
aaggttcctg cactaaaaca tccggaaatc ctgccaacag tgcaaggaag ctggttcagc 180  
aggtaggcct aaggttkgag gttstaaatc catttcaatc tgttatgctg gtccatggcc 240  
ttgatattgg c 251

<210> 103

<211> 458

<212> DNA

<213> Homo sapiens

<400> 103

gggaggcttt ctgaattatg ggggcaacat ggggagactg ggctttctgt ggaccatgac 60  
agctccgcag ccgtgctggg ctccctcagct ccactgtcag ggctaggaat tggccacaga 120  
acccccagag ccaaccctgg ggcccactag gaccccaaac acctgtgttt tcattctgcg 180  
tggcctcctg gttccctgga gttctttttt atgctgcctc tgggtgtgagg tcctcagcat 240  
ttaatttggt ctaagttaa aagctgcaag agcaaaacag aacccccaaa gcctggggcc 300  
cacagctgct gcggctgatc agagatacga cccagagga ccacgtccac cargggccgg 360  
atggacagcc acctatattg tamtccttgt ttcaaaagca acaatagcaa ataacattcc 420  
aaaagttcta tgatragact tcaagacact aggattta 458

<210> 104

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 104

tgtgtgtccg cgcaggcgag caccgogccg gccctgagcc tcccgtctgc tccccacggc 60  
cgcggtgcat gttcgcttcc tgccactgtg tgccgagagg caggaggacc atgaaaatga 120  
tccactttcg gagctccagc gtcaratcgc tcagccggag atgagatgca ccatccggct 180  
gctggacgac tcggagatct cctgccacat ccagagggaa accaaagggc agtttctcat 240  
tgaccacatc tgcaactact acagcctgct ggagaaggac tactttggca ttcgctatgt 300  
ggacccagag aagcaaaggc actgggcttg aacctaaaca gtccatcttc aagcaaatgn 360  
aaactcatcc accatacacc atgtgcttta gagtgaattt anccacatga acccttgaag 420  
attaagaag actcacaag 439

<210> 105

<211> 233

<212> DNA

<213> Homo sapiens

<400> 105

tcccaaagtg tggggattat aggcattgagc cactatgccc agcctacttt tgttttttaag 60  
aaattgaaac gatatagaaa agtacaaaga acaacctaataaacactcat attcccacca 120  
ctcagaatta tcaacttttt atcatttttat catatttgct tcagatcttt ttttttttta 180  
aagaaaagta taacagattt agctaaagta ccctttgacc aataccccac ccc 233

<210> 106

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 106

ggcagcggtg gccgaggcct cttgggttctg cggcacgtga cggtcggggc gcctccgcct 60  
ctctcttttac tgcggcgcg ggcagggtgt gcggggcgga aggggcacgg gcacccccgc 120  
ggtccycggg aggcctagaga tcatggaagg gaagtgggtg ctgtgtatgt tactgggtgct 180  
tggaactgct attggtgagg ctcatgatgg acatgatgat gatgtgattg atattgagga 240  
tgaccttgac gatgtcattg aagaggtaga agactcaaaa ccagatacca ctgctcctcc 300  
ttcatctccc aaggttactt acaaagctcc agttccaaca ggggaagtat attttgctga 360  
ttctttttgac agaggaaactc tgtcagggtg gatttttatcc aaagccaaga aagacgatac 420  
cgatgatgaa attgccaaat atgatggaaa gtgggaggta gaggaaatga aggagtcaaa 480  
gcttccaggt gataaaggac ttgtgttgat gtctcggggc aagcatcatg ccatctctgc 540  
taaactgaac aagcccttcc tgtttgacac caagcctctc attgkctcagt atgaggktaa 600  
tttccaaaat ggaatagaat gtggtggtgc ctatgtgaaa ctgcttttcta aaacaccaga 660  
actyaamctg gatmakgtts agaggactat aaactgcctt catn 704

<210> 107

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 107

ggaatacccc ctcaattctg tggtcttcttt cctgtagtag acgatcaagg gtggaatcta 60  
cagtccatgg gccctgactt cttgccttcg tctcaaatag actctgcagc cagccatcta 120  
tgcagcgccc cagtggcttt gaaatgcaac agaaaccatc acccccggaac catgggctcc 180  
atgccagtgg gcaaagcaca ggtgcgttca ctgagttccc agcacatagc tgtggcaggc 240  
acttggtgat attttgaaat aaaagaatgg aagaatgtgt ccaagctgtg cttcccccttt 300  
ctaccttact cagggacatg gtgccctcct ctctgggttyc ctgccctgtg ccamcccccg 360  
scccctgcaa gcacagytct tatgtgcaaa gccctgttaa gtgctggagg gattactgat 420  
ggcttngggg aagtggcaat gggtat 445

<210> 108

<211> 592

<212> DNA

<213> Homo sapiens

<400> 108

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accaaaactg cacaaagata gaaacagggg cttctgtgct ccttcagctt cacgtgttaa 60
cctggctccc cagaccaaag accaacaccg cagggtgagt tcattcctctg ccaacagcaa 120
tctttccctt cctctgaggc cagccatccc catcccagga ggcaggggaa gcaagcccgg 180
ggagggcagg agagctccca gctcagttaa gcagctccac cggccccgaa gcacctccct 240
tgctcacagc tcrgasccca gcttctccct gctgcmaagr taactgcagc yttcagactg 300
acttccatgc ccctctagct agggscatc acttcaagtt caggcgccaa aaaccaagaa 360
agtaaatac acttcataga ctttatttac cttaaaaaat tcttgagttc attcatgtct 420
ccaaaccact agagaacctg aaaattcacc aggaaattgg gcaactgcaa gttatcctgg 480
agactccaga gtcaaacactt cattaaatga gaacaatctg gttcatgcgt tgaagctgtt 540
acagtaatca gggcgacatg ggcaggggaa gcgatttttc tgaagctgtg cc 592
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<210> 109

<211> 381

<212> DNA

<213> Homo sapiens

<400> 109

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tcaccttgta gagaagaaag tcaacagata atttctaaat tggaaaatca ggaaattaca 60
gtcattataa gagatatatg gggaggatat aaataccaga ataaaaagat aaaagagatg 120
aaaatagtag tctctgggga gctaaagtct aaaatacaaa ggtgtgaggc agaccttata 180
tactacttaa cttgtatact atttatagcc cagtattctg ttttctagac ctgtccaggt 240
gttaagggat ccaatctatg aaccagcaga gacccaatga ctaaaqmcaa actttgctgc 300
acactgaaat cacctggggg aatcttttaa aaagtactga cgctgactc ccaccacaaa 360
acagtctgat ttaattgggc a 381
```

<210> 110

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<400> 110

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attggtcggg acctgaagcg ttgagggttaa gggcaaggca aggagcaacg aggagttttt 120
cgttacgtta gaaaaatttc gttgcgtgct gaaagcgtt ttacctgtgt tgtatgattt 180
aaccttatga aaatggacag tatttccagt ttacaagtg aggaaagaag attaagaaac 240
ttgcctccgc cangcgtggt ggttcactcc ctgtaatccc agcaatttcg gcggccgaag 300
caagcggatc acttgaggtc angagtccga agaccagcct gggccaaaca t 351
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<210> 111  
<211> 1583  
<212> DNA  
<213> Homo sapiens

<400> 111  
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ccggcgcggc gcggctgccc tcgggggtgg cccggctgct gtcggcgctc ttctacggga 120  
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gcctaccgat gttcacccgtg ctccaggaaat tcaccattcc acttacctta cttctggaaa 420  
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caaaggagct agggaaatac ggagtacttt tctacaatgc ctgcttcatg attatcccaa 660  
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agaatgttgt gtttatccta cagtttcttc tttcctgttt tttggggttt ctgctgatgt 780  
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cactgggact cggtaggtgg agccccagct gctcttctag ggacctatgg ggccttcgtg 1320  
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aaaaaaaaaa aaaaaaactc tga 1583

<210> 112  
<211> 431  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 112

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agggaaggtt tccaagcttt aggaagaatt attttttttc aagacgctgt cttccgtact 120
ttcgttatta aacatacggc tcaagtgatc accggtatag acagtgacat cagacatctt 180
tcattagccc tactcaaaaa tggcggcaac gtaatatcct gggccggagt cggttgtaac 240
ccggaagtgc ctttgtaaag gaggggtggt tagacaatcc ggaartggat ggaatgaaga 300
gatgccactt ggcggcccat ggcagctggt agtatcggcg actccgggtm aaggcccgt 360
csagttgcat taccatgggg cagcaccngg ttttaggggc agggacantt ttgttggtca 420
anttgttgc g 431
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<210> 113

<211> 2842

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2656)

<223> n equals a,t,g, or c

<400> 113

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ggtggactcg gagtcgcga gcgtcgtcgg caagcggccg cctttccacg gtactccgag 60
cactatgtcg tccccggcgt cgaccccgag ccgcccggcg agccggcgtg gaagggccac 120
ccccgcccag acgcctcgga gtgaggatgc caggatcatct ccctctcaga gacgtagagg 180
cgaggattcc acctccacgg gggagttgca gccgatgcc acctcgcctg gagtggacct 240
gcagagccct gctgcgagr rcgtgctggt ttccagccct ccccaaattgc attcttcagc 300
tatccctctt gactttgatg ttagttcacc actgacatac ggcactccca gctctcgggt 360
agagggaacc ccaagaagtg gtgttagggg cacacctgtg agacagaggc ctgacctggg 420
ctctgcacag aagggcctgc aagtggatct gcagtctgac ggggcagcag cagaagatat 480
agtggcaagt gagcagctc taggccaaaa acttgtgatc tggggaacag atgtaaatgt 540
ggcagcatgc aaagaaaact ttcagagatt tcttcagcgt ttatttgacc ctctggctaa 600
agaagaagaa aatgttggca tagatattac tgaacctcta tacatgcaac gacttgggga 660
gattaatgtt attggtgagc catttttaaa tgtgaactgt gaacacatca aatcatttga 720
caaaaatttg tacagacaac tcattcttta cccacaggaa gttattccaa cttttgacat 780
ggctgtcaat gaaatcttct ttgaccgtta ccctgactca atcttagaac atcagattca 840
agtaagacca ttcaacgcat tgaagactaa gaatatgaga aacctgaatc cagaagacat 900
tgaccagctc atcaccatca gcggcatggt gatcaggaca tcccagctga tccccgagat 960
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gcaggaggcc ttcttccagt gccaaagtgtg tgcccacacg acccggttg agatggaccg 1020  
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aattttgctt cagctctttg gcgggacaag gaaggatttt agtcacactg gaaggggcaa 1560  
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gcatcgtgga catatctatt cttactacgg ggatgagtg cactctcgt aaacggaaag 2460  
aagaattagc tgaagcattg aaaaagctta ttttatctaa gggcaaaaca ccagctctaa 2520  
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tgtttgaaga agcactgcgt ccnctggcag wtgatgattt cctgacagtg actgggaaga 2640  
ccstgcgctt gctctngaag ccttgtagc aaggaaggct ccctgcatgt cctgcttgct 2700  
gcacgccaca tgggtgtggt ctgcatctca gttggccgcc atcagtgtaa atagagctta 2760  
aagtcatggt ttggctgcat aaaaattttc taacttgggt tcaatatttg tagtgaagta 2820  
tctgttttca tttttttcac gt 2842

&lt;210&gt; 114

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

atatttgcgtg tgggtgggttg ggctacagca ggcctctgga gccacaccag ggcacgggag 60  
tgggtgcagg gaccgtcacc gcgccttcac acgcaccata gtgcccggct aattactctg 120  
cttttatgag ccaaggtgtt cccgaaagtg garccagcgc cagcgtctc yaaggtctcc 180  
ataccagcc ttctccctg cgggtgccaa aagccttgcg cgcattttgc atttgggaaa 240  
aaaagtcctg aatgcgaacg tcacccca 268

&lt;210&gt; 115

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;



<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<400> 115

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gcgtcggggc ttcggaggcg tgcgggcttc ggaggcgtgc gggcttcgga ggcgwgcggg 60
cttcggaggc gtgcgggctt cgggtgccat ggggactcct cccggcctgc agaccgactg 120
cgaggcgctg ctcagccgct tccaggagac ggacagtgtg cgcttcgagg acttcacgga 180
gctctggaga aacatgaagt tcgggactat cttctgtggc agaatgagaa atttagaaaa 240
gaacatgttt acaaaagaag ctttagcttt ggcttggcga tattttttac ctccatacac 300
cttccagatc agagttggtg ctttgtatct gctatatgga ttatataata cccaactgtg 360
tcaacaaaaa caaaagatca gagttgccct gaaggattgg gatgaagttt taaaatttca 420
gcaagattta gtaaattgcac agcattttga tgcagcttat attttttagga agctacgact 480
agacagagca tttcacttta cagcaatgcc caaattgctg tcatatagga tgaagaaaaa 540
aattcaccga gctgaagtta cagaagaatt taaggacca agtgatcgtg tgatgaaact 600
tatcacttct gatgkattar aggaaatgct gaatggtcac gatcattatc agaacatgaa 660
catgtaattc agntgataaa gtccaagcca gataaggcct taacttgata aaggatgatt 720
tttttgacaa tattaagaac atagttttgg agcatcagca gtggcccaaa gaccgaagaa 780
tccatcctta agncaaaaac 800
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<210> 116

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (615)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<400> 116

aacaaaggca ttgccatcta caagaaggat ttcttcctgg tgcagaagct ggtgagctgg 60  
gctctgtttc agggcaaatg agggccagga gctgcctgtg tgactttggg gctccctctg 120  
ccagtgacca atccctctta aaaagcagtc aggtcaatgc tactgagtag cctcagagag 180  
aatttcctaa acaatacaag aaagagaaa ataggtctct tttccctttt ggttctaagc 240  
atccttttct cacttcaggg taggggtggc aagctctggg gtctcaatcc agaaggaggc 300  
ctaagtgggc atcagactta aaataggcag gaggaagatg cggaggaggg tggcaaktag 360  
aggtgagcca ttccccagag gaagatgcag ggggagggca ccctgggggtg aaggccactg 420  
agagccagca agtgcctgcg gactgacctg ggggcctctg cccacttcct ttgacctaga 480  
gttgcccttc agtaactcag ctgttcaagc ccacattccc taagatttat cttgtcctct 540  
ctcccatatt cttctnggaa aagcagatgc tttgctaate ccaaggaatt gnattttttc 600  
cagccctgtt ttcanaaaat ctgggggcttt ggggaaaaaa aattnt 646

&lt;210&gt; 117

&lt;211&gt; 1534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

gcgacctcgg ccataagcgc ctgcgcagtc gcggggccgc cggccgtgct gttcccgcga 60  
attcctgtgg taatcettac cgtggcgagt tccgcgctca atggagacgt ttgacctcac 120  
cgagctgccc gagctgctta aactttatta ccggaggctc tttccctact ctcagtacta 180  
tcgctggctc aactacgggtg gagtgataaa gaattacttt caacaccgtg aattttcatt 240  
cacattgaaa gatgatattt acattcgcct ccaatccttc aacaaccaga gtgatctgga 300  
aaaggagatg cagaaaatga atccatacaa gattgatata ggcgcagtat attctcacag 360  
accaatcaa cacaatacag tgaagctggg agctttccag gctcaggaaa aagaactggt 420  
atgtgacatt gacatgacag actatgacga tgtgaggaga tgttgtagtt ctgcagacat 480  
atgtcctaag tgctggaccc tcatgacaat ggccatacgc atcattgaca gagcattgaa 540  
ggaggacttt ggatttaagc atcgtctctg ggtatattct ggaaggagag gtgttcattg 600  
ttgggtctgt gatgaatcag ttagaaactg tcttctgcar tacgttcygg gatagttgag 660  
tatttgagcc ttgtaaaggg tgggtcaagac gttaaaaaa aagttcacct aagtgaaaaa 720  
attcaccctt ttatcagaaa atctataaac ataataaaaa aatactttga agaatatgcy 780  
ttgggttaatc aagatattct cgaaaataaa gaaagctggg ataagatttt agcccttgct 840  
ctgaaacaat tcatgatgaa cttcaacaaa gcttccaaaa gtctcacaat tcacttcagc 900  
gttgggagca cttgaagaaa gtagccagca gatatcagaa taacatcaaa aatgacaaat 960  
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atgtcagcaa aggaatcaat catctactga agagcccttt tagtgttcat cctaaaacag 1080  
gtcgcattmtc tgtgcctatt gatttgacga aagtggacca gtttgatcca tttactgttc 1140  
cgaccataag cttcatctgc cgtgaattgg atgccatttc cactaatgaa gaggaaaaag 1200  
aggagaatga agctgaatct gatgtcaaac atagaaccag agattataag aagaccagtc 1260  
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gagaacttct taagaagagt gatttacaaa aagattttctg aagacagagc tcctcaaacc 1380  
attgtggata tcttctgcct tcaaccacag atcaaatact tcaagagcca ttttaataaat 1440  
atggcagaac tatatatgtg tcttaaacct caaagtaaat tttccttgag aaataaaaaa 1500  
aaaaaaaaaa aaaaaagtcg agactagttc tctc 1534

&lt;210&gt; 118

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
<222> (155)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<400> 118  
tagatgaaga taatgaaaaa gaaaaaaggg actctttagg caatgaagaa tctgttgata 60  
aaacagcatg tgaatgtgta aggagtccaa gggagtcttt ggatgacctg tttcaaatat 120  
gttctccatg cgcattgca agtggtcttc ggaanacctg gctgaattga caacattatg 180  
tttggagttg aatgtattga attctaagat caaaagcacc agtggracat gtgggaccac 240  
actttgccaa cagtaactct cctgaaattc tgggcttgcc atttccctga aagaagtact 300  
tttttcttcc ggaacttgga aaagagcgaa ggnagagta 339

<210> 119  
<211> 665  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (616)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (656)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (665)  
<223> n equals a,t,g, or c

<400> 119  
aaagagtgtc cctagttgta acagaaactg tcgatgcagg tttattttgga gaaggaattg 60  
tggagagttt gattcatgca tgggagcatt tacttttaca gccaaagacc aaaggtgaaa 120  
gtgctaattg tgaaaagtat gggaaagtta taccagcaag tgctgttata tttgggatgg 180  
cagtagaatg tgcagagata agaagacatc atagagtggg tattaaggac attgctggta 240  
tccatttgcc aacaaatgtg aaatttcaga gtccggctta ttcttctgta gatactgaag 300  
aaacaattga accttataca actgaaaaga tgagtcgagt tcctggmggr tatttggctt 360  
tgacagagtg ctttgaaatt atgasagtag atttcaacaa ycttcaggaa ttaaaaagtc 420  
ttgcaactaa raarcctggt aaaattggta ttctgttat taaagaaggc atattagatg 480

ctgttgtggt ttggtttgta ctccagcttg atgatgaaca tagtttatcc acaagtccta 540  
atgaggaaac atgttgggaa caagctgtct accctgtaca tgaccttgca gactaccgga 600  
taaaacgtgg ggaccngtga tgatggaatg tcttgtccaa gattgttact taagantcca 660  
gaatn 665

<210> 120  
<211> 622  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (544)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (577)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (603)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (614)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (620)  
<223> n equals a,t,g, or c

<400> 120  
gagggctgcg ggaggcggga ggaaaaagtg gggccggggc tgagttgggc tgacctgtga 60  
aagtctggga aggtctgcga gagaagcgga gtgttttcag ctccggaagt ggcagttgta 120  
aacttcacct cccgggggct cttccccttc tgtacccctt tgctgtttgt ccccttcctc 180  
ccgggtcctg gagtccgtcg tgtccaaca gtttttgcgc ttattcccgt gggctgctgg 240  
gcctcctttc acccgtgaga cttggarcgg ccctgggggc ttgggtgtca agcacggatc 300  
acgcgagacc cctgagacct caaatcatct aacgtgaagc cacagacatc ttggcaattt 360  
taatcatcaa gaaagaaata tgtcatlaag aaatagcagg gtattttgaa agaagttgga 420  
aaacatcatg aatttgaata ctttaagtaa tactggtgat acccaaaggc tgaagattgc 480  
ctcattggat gtaaaacaaa tacttaaaaa tgaaacagag ttggatatta ctggataatc 540  
tcangaagaa actccattgg gctaaaaaag aaaagtntga aataccacca accccatgga 600  
aancttgcaa gctntgaagn ca 622

<210> 121  
<211> 889  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (830)

<223> n equals a,t,g, or c

<400> 121

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ggatcttttt ggccgtccaa gtcaggggtct ttattcttca tctgccagta gtgggaaatg 120
tttaatggag gttacagtgg atagaaactg cctagagggt cttccaacaa aaatgtctta 180
tgctgccaat ctgaaaaatg taatgaacat gcaaaaaccgg caaaaaaaag aaggggaaga 240
acagcccgtg ctgccagaag aaactgagag ttcaaaacca gggccatctg ctcatgatct 300
tgctgcacaa ttaaaaagta gcttactagc agaaatagga cttactgaaa gtgaagggcc 360
acctctcaca tctttcaggc cacagtgtag ctttatggga atggttattt cccatgatat 420
gctgctagga cgttggcgcc tttctttaga actgttcggc agggatttca tggaagatgt 480
tgagagcagaa cctggatcaa tcctaactga attgggtggg tttgaggtaa aagaatcaaa 540
attccgcaga gaaatggaaa aactgagaaa ccagcagtca agagatttgt cactagaggt 600
tgatcgggat cgagatcttc tcattcagca gactatgagg cagcttaaca atcactttgg 660
tcgaagatgt gctactacac caatggctgt acacagagta aaagtcacat ttaaggatga 720
gccaggarar ggcagtgggt tagcacgaag tttttataca gccattgcmc aagcattttt 780
atcaaataaa aaattgccma atctagagtg tatcccnaaa aaaaaatttn ggccccccca 840
aaaacccaaa aaaaaggggc caacccccaa ccaccaaagg gtttttttaa 889
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<210> 122

<211> 132

<212> DNA

<213> Homo sapiens

<400> 122

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cttgagcccc tgagttgtgg gggtaggggtg aagagcatat cccacaagag gccccacagg 60
gagcagagac tgctttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120
ttgtcactat gt 132
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<210> 123

<211> 1900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<400> 123

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gcggacgcnt gggaaacagc cgattggaga cgggagccaa ccagggctgc attggaggtt 60
gaaatcacaa agattagaca cctttttaga taggtgttct tcagcaccac tgacaacacg 120
gttctgacag tatttcatga caatggatgg tgacagttct acaacagatg cttctcaact 180
aggaatctct gcagactata ttggaggaag tcattatgtt atacagcctc atgatgatac 240
tgaggacagc atgaatgatc atgaagacac aaatggttca aaagaaagt tccagagaaca 300
agatatatat cttccaatag caaacgtggc taggataatg aaaaatgcca tacctcaaac 360
gggaaagatt gcaaaagatg ccaaagaatg tgttcaagaa tgtgtaagt agttcatcag 420
ttttataaca tctgaagcaa gtgaaaggtg ccatcaagag aaacggaaaa caatcaatgg 480
agaagatatt ctctttgcta tgtctacttt aggctttgac agttatgtgg aacctctgaa 540
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cacagctaca gatggactaa gtgaagagct tacagaggag gcatttacta accagttacc 660
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gggagtgtag agaaatgaga gtctgtatga ttctggaaca gagacatcag aaggaaagac 840
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aattgaggtg ttaattctga cttgagaatc tttttcatga atgattttta agaaaaattt 960
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gatttttttt caaatcatat cttcaagtac tatagtattc tcttacagaa gaggagtttt 1620
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agtggatgaa atggagaaca gagtgaagtgc tgtgaacggg gtgaaataga agccaacttc 1800
tagtatgctg tcttcatctc tgcaataaac taaacgtaaa taawrwaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaana aaaaaaaaaa aaaaaaaaaa 1900
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<210> 124

<211> 1250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c



&lt;400&gt; 124

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ggcacgagga ggaaactaac gattccctgc ccacccccac acccagcacc accaacaggt 60
gggcaagctt gccgagaaaa cgcagagggc atcctgtgag cagcaaacac atctgagcct 120
ggaaaagacg cagagaagta aaagatcaaa gtctgattgg caccggctcc cattccggct 180
ccagcctcca atccgacccc catttcggct gcagcctcgg acctagctcc ggccctcggg 240
ctatccgggt gcatacctccc tccctgttcc ggatccttatc ttgcgccagc gcctactcca 300
ggatcccgta gccagacctc aagccatggc tggctccctc tcccgtctgc tgtccgcccg 360
cccgggactc aggctcctgg ctttggccgg agcggggctc ctagccgctg ggtttctgct 420
ccgaccggaa cctgtacgag ctgccagtga acgacggagg ctgtatcccc cgagcgctga 480
gtacccagac ctccgaaagc acaacaactg catggccagt cacctgaccc cagcagtcta 540
tgcacggctc tgcgacaaga ccacacccac tgggttgagc ctagatcagt gtatccagac 600
tggcgtggac aaccctggcc accccttcat caagactgtg ggcatgggtg ctggagatga 660
ggagacctat gaggtatttg ctgacctgtt tgaccctgtg atccaagagc gacacaatgg 720
atatgacccc cggacaatga agcacaccac ggatctagat gccagtaaaa tccgttctgg 780
ctactttgat gagaggtatg tattgtcctc tagagtcaga actggccgaa gcatccgagg 840
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gacagaggct gaacagcagc agcttattga tgaccacttt ctgtttgata agcctgtgtc 1020
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caacaatgag aagagcttcc tgatctgggt gaatgaggag gatcatacac gggatgatctc 1140
catggagaag ggtggtaaca tgaagagant gtttgaaaga tctgccgagg cctcaaagag 1200
gtrgagagac tatgtagggg actaggtggg aggacataag gaaaacccaaa 1250
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&lt;210&gt; 125

&lt;211&gt; 1189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1041)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1136)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1144)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

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cttttttttaa ccttttaggt atctgatcgc tttgccaaatt ttgcgttact gggcaggcta 60
agagatcttc ttttaattca gcctgcttaa gacgggaact gataactcta gtgtatcctc 120
tgccctttttt cttatctatt ggaggaagct cagatgggtg cacaagaagg atctgaagtg 180
gagcttctag tatccccagg agcgcgaagt gaacacggaa ggtacctgca ggatccaatt 240
gtgtccattg atctctcaga gtggctgagg ataataagagt ttcttcttca aggtctcaag 300
gtctgaagca tcccacagaa tgatcctact gaataactcc cataagctgc tggccctata 360
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caaatccttg gccaggagca tccctgagtc cctgaagggtg tatggctctg tgtatcacat 420  
caatcacggg aaccccttca acatggaggt gctgggtggat tcctggcctg aatatcagat 480  
ggttattatc cggcctcaaa agcaggagat gactgatgac atggattcat acacaaacgt 540  
atatcgtatg ttctccaaag agcctcaaaa atcagaagaa gttttgaaaa attgtgagat 600  
cgtaaactgg aaacagagac tccaaatcca aggtcttcaa gaaagttag gtgaggggat 660  
aagagtggct acattttcaa agtcagtga agtagagcat tcgagagcac tcctcttggt 720  
tacggaagat attctgaagc tcaatgcctc cagtaaaagc aagcttgga gctgggctga 780  
gacaggccac ccagatgatg aatttgaaag tgaaactccc aactttaagt atgcccagct 840  
ggatgtctct tattctgggc tggtaaata caactggaag cgagggaga atgagaggag 900  
cctgcattac atcaagcgt gcataaga cctgccagca gcctgtatgc tcggcccaga 960  
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gcatggaaaa ataccgaaga ncaggcaaca tgggcacgag tgatgggtgcg atacatggaa 1080  
atatctgcgt cagaaggaat atttccattt ttacatctct gtgttgggaa ggaaantgaa 1140  
ggantccccg cagatttgtg gggggcagtt ttggtttctt ttgaggcct 1189

<210> 126

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 126

gaggtcctga gagactgtra gagccccaac tccattagta ttatgggcct caatacttcc 60  
cgggttgcaa ttaccctgaa gcccgaagac cctatggaac agaacgtagc tgagctgttg 120  
cagttcctgc tgggtgaagga tcagagcaag taccctatcc gggagtctga aatgcgggaa 180  
tatattgtta aagaatatcg caaccagttt cctgagatac tcaggcgagc agcagcccac 240  
ctggagtgca tttttaggtt tgaattgaga gaacttgacc ctgaggcaca cacctacatt 300  
ctgttaaaca aactgggacc tgtgcccttt gaagggttag aagagagccc aaatgggcca 360  
aagatgggcc tcctgatgat gattctangc caaatattcc tgaatggcaa ccaagccaag 420  
gaggctga 428

<210> 127

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 127

acgcggtcgg ccgggagccg gggaggagcg tggacgccgg cctggcaggt acccccgcga 60  
gaacgtggga gccggtgtat ttcagctgca tttattactg atctcgggct gcaccagggc 120  
acttgtagga ccgcactaaa aacagcggaa agtgaggagc caagcctggg tccggggcgg 180  
cccgccgtac agctggcctc acggattcca ctgcctgcgc ctgcagatga cttgttctgg 240  
agagtagaga atgtntcgg atttaaagta caatccggtt tcctttccat tcattatagt 300

tgcctacact caacaaacaa aagttgggaa agataaaggg attattctag cgcgtcacat 360  
tgacaaacac cgacgttaac acgctcagtc cagcctgact cacttgccctc aggtcagaga 420  
ggtcaccact gacgacgccg ggccctcaag ccgatacctaa tccagcttgg ttctctcagc 480  
ctcagccaga ccatccgttc ttgcctctgt cccaccacgt gcaggtgtaa gytccgccg 540  
cacttcttgt ctgaatctgc caaggaagga aactggcatc tttcagctta aattcttttt 600  
cacttgatca ggggtaggag tttaggcggt tttttttttt aagga 645

<210> 128

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 128

ctggagtctc aacgacgcgc acacgagaag taaggagcgg aaggtgggaa agggccggaa 60  
aacacacggt cctccgaaac cggtttgcaa gtccttgtag agagtgatag attcgtgtgg 120  
cctttcaaatt gattgtgaag tgggtggaaat ggatccaaaa taataagtga cttctctacc 180  
aaagcataga agattcttca tatctccttc cagtggctca atttagattt tgggaargag 240  
cagaacaagt gaaacacaga aaactgaaga gaagaaatcc tcatttttga cctatatattc 300  
tccttgacta tttcttaata tccatcctac ccatcggttct aatgttttaa ctttgctctg 360  
aattttataaa tagtaaaggc caaagacata gaatatacat ttagtagctt tataccaaga 420  
aatttgccctt gaaagctgct gtscgtggag gggaaagtgt agcaaattcc tggcnatttg 480  
naattttaan ttattg 496

<210> 129

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 129

ctggcgcccg caggagcgcg tgcggcgtgg actttgccgg gctcgccaca cagccccaga 60  
cccgttttagg accgggagac cgaacgcagc gwccagccgg ggagtttcgg cggcgttctc 120

cgggcaccgc gcgcggaagc cagacgcagc ggggggacac atctcgcggt ggcggttgcca 180  
gagtgaggag ttagcaggca ggacttgacg aggcctctttg gtttttctag tcctcaacca 240  
ctgaagaaga agcttgatgc ttggctgtca gaagacatga attacgcacg gttcatcacg 300  
gcagcgagcg cancagaaac ccttctccca tccggaccat gactgacata ttgagcagag 360  
gaccaaatac gatgatctcc ttggctggtg gcttaccaa tccaaacatg tttcctttta 420  
agac 424

<210> 130  
<211> 1709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (881)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1028)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1061)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1168)  
<223> n equals a,t,g, or c

<400> 130  
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carggttcca ggacgatgtg gacctcgaag accagccacg tgggagtccc ccgctgcctg 180  
caggccccgt cccagtcgaa gacatcactc ttctgagtga ggaggaagca gaagtggcag 240  
ctcccacaaa aggccctgcc ccagctcccc agcagtgtc agagccagag accaagtggg 300  
cctccatacc agcttcgaag ccacggaggg ggacagctcc cacgaggacc gcagcacccc 360  
cctggccagg cgggtgtctt gtctgcacag gtccggagaa gcgcagcagc accaggcccc 420  
ctgctgagat ggagccgggg aagggtgagc aggcctcctc gtcggagagt gaccccgagg 480  
gacccattgc tgcacaaatg ctgtccttcg tcatggatga ccccgacttt gagagcgagg 540  
gatcagacac acagcgcagg gcggatgact ttcccgtgcg agatgacccc tccgatgtga 600  
ctgacgagga tgagggccct gccgagccgc cccaccccc caagctccct ctccccgcct 660  
tcagactgaa gaatgactcg gacctcttcg ggctggggct ggaggaggcc ggacccaagg 720  
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aaaaaggcaa agaggaagaa gaaaaagctg ccaagaagaa gagcaaacac aagaagagca 840  
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gggagaggac ggctgccgat gagctggagg ctttcctggg gggcggggcc cgggcggccg 960  
ccaccctggg ggtggcgact acgaggagct ctaggccggc gtgggcagtg gccgccctgg 1020  
ggcggggngc gtgcctgtca ctgcctgggg aggcatttgc ntctgtacca tcgcctttgc 1080

cgctgccccg tggctgccgt gtgcgcttct gagctggaag aggccgggca ttggtgggtcc 1140  
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agctgcgccc ccgctcaggt gagcccgaag gcaggagccg ggaggcactc ctcccaaaca 1620  
ctccactcag accataaagc actcctgttt cactctgaaa aaaaaaaaaa aaaaaaaaaa 1680  
aaaaagggcg ccgctcgcgga tctagaacc 1709

<210> 131

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 131

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aggctctggag cgaattccag cctgcagggc tgataagcga ggcattagt agattgagag 120  
agactttacc ccgccgtggg ggttgaggcg cgcgcagtag agcagcagca caggcgccgg 180

tcccgggagg ccggctctgc tcgcgcgcgag atgtggaatc tccttcacga aaccgactcg 240  
gctgtggcca ccgcgcgcgcg ccgcgcgtgg ctgtgcgcgtg gggcgctggg gctggcgggg 300  
ggcttctttc tcctcggtt cctcttcggg tggtttataa aatcctccaa tgaagctact 360  
aacattactc caaagcataa tatgaaagca tttttggatg aattgaaagc tgagaacatc 420  
aagaagttct tatataattt tacacagata ccacatttag caggaacaga aaaaaacttt 480  
cagcttgcaa agcaaattca atcccagtg aaagaatttg gcctggattc tgttgagcta 540  
gcacattatg atgtcctgtt gtcctacca aataagactc atcccaacta catctcaata 600  
attaatgaag atggaaatga gattttcaac acatcattat ttgaaccacc tyctycagga 660  
tatgaaaatg gttcggatat tgnaccacct ttcagtgcct tctctcctca aggaatgcca 720  
ganggcgac tagtgatgn taactagcac gaactgaaga cttcttttaa ttggracggg 780  
acatgaaaat canttgctct ggggaaaatt gtnattgcca agatatggga aagttttcaa 840  
naggaaataa gggttaaaaa tgccca 866

&lt;210&gt; 132

&lt;211&gt; 1593

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

gttgtagtga gctgagatca tgccactgca ctccaacctg ggtgacagag cgagactcca 60  
tctcaaaaat aaataaataa ataaataaat aaaaccttaa tttgatggg gttttatgtc 120  
tgccatttcc atttagattc aaagaatcct aagaataatg gtggagcaaa gcttattttt 180  
ctgttttttg aatcttgtaa ggcattggtgc caaacccaat gaaatgggtgc caaaaagtcc 240  
tgcagctgga actagagcta gagtctaagg gttctgatcc ttagctccaa ggccttctca 300  
taaataccttt gacactttca cctccaaca cagtcagtca gtctctgttt ttctggttg 360  
gtttctatat aaaactttcc attttgagta atgatcttcc cctcttgcc tttcttctac 420  
atattccaat aaagaccttt tttgtcttca actcctgtca cttggattcc aggacttctt 480  
ccatccctca tgtttgttcc ttactttgcc agcctcggcc atttctgtat cccctgcct 540  
gggkttgctg ccttttatgc tcctamctca ccaggtaaa ggaacatgaa gatggctata 600  
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cacaagaggg atcgggctgg gaacgtcgt gaacgagagc agcctgcarg gsattattct 720  
agaaacagt ccaggggagc caggacgtaa ggaagaggaa gaggaggga agggtagcga 780  
agggacagcc ctctcagcct ctccaggaca cccagttct gtcattccac tggatgaatca 840  
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ccttccccc gccctgagc caccttcagg gggcatcatg gaaaagcttc aaggaatagc 960  
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tcctgaagtt tgagccaggc aagtggcagt gcccttagtg ggcagccgtt gccaatggat 1080  
gccttttagga gtgggtgccga gagcagtgtg gtccactctg gcctggggtt gcatcattct 1140  
gcagactcta aagacttccc ttttctgcca gactacattt tgtggggagc ctgaggactc 1200  
tggattcttt gaggggagtc tggatgtgtg tgttcttgtt aaagaggctg ttatcaggct 1260  
taacyataac cctcaagatc tgcttgacag tgattaaatc cttagctcac atccattccc 1320  
atctttcggg ctcttaggc ccaaggatgg catgtgactg gtccctgcaa gggtcctttc 1380  
tttgtcacca gccaaaggcat tgataaccaa gtagccattt tcctcttaag gtttctctta 1440  
caaccccaag gactttcatg attatcctca gggacaggat tggaggcatt gagcgtgttt 1500  
attaacaaat tgtttttggt aataaaataa atgcttgga aaaaaaaaaa aaaaaaaaaa 1560  
aaaaaaaaa aaaaaaaaaa aaaaaactcg tag 1593

&lt;210&gt; 133

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 133

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tccttctgac gtcaatgtga tggcgggaatc gctgaaggat atggaagcag atgcccagaa 60
actgtaccag ttaatctggc gtcagttcgt tgccctgccag atgaccccag cgaaatatga 120
ctccacgacg ctgaccgttg gtscggggcga ttcccgccctg aaagcacgcg gtcctatattt 180
gcgttttgay ggctggacaa aagtgatgcc tgcgttgctg aaaggcgatg aagatcgcat 240
cttaccagca gttaataaag gcgatgctct gacgctcgtt gaacttacac cagcccagca 300
ctttaccaag ccgcccagccc gtttcagtga agcatcgctg gttaaagagc tggaaaaacg 360
cggtatcggg cgtccgtcta nctatgcgtc gatcatttcg accattca 408
```

<210> 134

<211> 2741

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1673)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2736)

<223> n equals a,t,g, or c

<400> 134

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cggcgtaag acttcgtagg gttagcgaaa ttgaggtttc ttggtattgc gcgtttctct 60
tccttgetga cyctccgaat ggccatggac tcgtcgcttc agggccgcct gtttcccggg 120
ctcgctatca agatccaacg cagtaatggg ttaattcaca gtgccaatgt aaggactgtg 180
aacttgagga aatcctgtgt ttcagtggaa tgggcagaag gaggtgccac aaagggcaaa 240
gagattgatt ttgatgatgt ggctgcaata aaccagaac tcttacagct tcttccctta 300
catccgaaga caatctgccc ttgcaggaaa atgtaacaat ccagaaacaa aaacggagat 360
ccgtcaactc caaaattcct gctccaaaag aaagtcttcg aagccgctcc actcgcatgt 420
ccactgtctc agagcttcgc atcacggctc aggagaatga catggagggtg gagctgcctg 480
cagykgcaaa ctcccgaag crgttttcag ttcctcttcg gaggaatca tgtcttgtga 540
aggaagtgga aaaaatgaag gaacaagcga gaagagaaga agggccagaa ycttgaawtg 600
agaatgaaga gagctcaggw gtatgacagt agttttccaa actgggaatt tgcccgaatg 660
attaaagaat ttcgggctac tttggaatgt catccactta ctatgactga tcttatcgaa 720
gagcacagaa tatgtgtctg tgttaggaaa cggccactga ataagcaaga attggccaag 780
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<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 135

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<211> 242  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (229)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<400> 136  
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gactaaatta gataatctct aaactccctt ttagttctaa aattctgtaa ttaaactcta 180  
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tn 242

<210> 137  
<211> 545  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (527)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (534)  
<223> n equals a,t,g, or c

<400> 137  
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tgccc 545

<210> 138

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 138

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atgggaactg caggctggcc ccaagcctct gcccgcctcc tcccttgcat gcagggcctc 300  
ctggagcctt gtgctcatcc tgggctcttg aggncccagc cctgcacaga gagcgcagac 360  
gtgccttgcc ttncaaccgc tccgctctgt cctctt 396

<210> 139

<211> 2771

<212> DNA

<213> Homo sapiens

<400> 139

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tccattagta tccgcagacg atgagatata tagcacaagt aaagcattta taggacccat 480  
ttacaaaccc cctgagaaaa agaaacgtaa tgaaggagg aatgaggcac atgttctaaa 540  
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<210> 140

<211> 422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 140

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tatgcaagta tataccacct tacataaacc tcactttaga taccctcaag tgattgcaca 180
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tatttacgta ttttataaac ctacatttng gkatawgaag tcttttcytt tttttttgag 360
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422

<210> 141

<211> 1630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<400> 141

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tagttcctcc 1630

<210> 142  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 142  
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tgaagacaat cctggaagag cttgttcaga ggggtcatga ggtgactgtg gtwracatcy 180  
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acatctttga actaaaaatt attt 264

<210> 143  
<211> 636  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
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<222> (9)  
<223> n equals a,t,g, or c

<220>  
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<222> (260)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (480)  
<223> n equals a,t,g, or c

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<210> 144

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 144

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ccagacatca ctgagtgcaa ggaggaggac atcatgtgca tcaaaktcga ccaagaaatt 360  
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<210> 145

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 145

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acaatgcagt gaatcacaga tgtctcctga aagaactctt ttagatgaaa tcattctact 1620  
caaatgtacc ttaatttttt ttttttccct gagtaaaagc aagaaatttc ttcctttgga 1680  
aaaaatatat atattaaaaa accactttta gatgggtttt tttaaaaaaa aaaaaaaact 1740  
ggtaaaatta cttttggcag acagtgtttt atgaattatg tatcatgttg atatataata 1800  
tgtaaatgtg tcatgtaatt tttactttgt acaaagcaaa taaagatctt tctcaaaaata 1860  
tactgtaaaa taatataaaa tattgaacac attctttatc aaaaaaaaaa aaaaaaaaaa 1920  
ttactgcggg ccgncaaggg aattc 1945

<210> 146

<211> 1114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1108)  
<223> n equals a,t,g, or c

<400> 146

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tgtggcgggc gccgcagctc cgcgtccccc gcgcctcctc ccagcgcaga cttcaagggc 120
taccactgga cccttccccct gtcttgaacc ctgagccggc accatgcacg gacgcctgaa 180
ggtgaagacg tcagaagagc aggcggaggc caaaaggcta gagcgagagc agaagctgaa 240
gctataccag tcagccaccc aggccgtatt ccagaagcgc caggctggtg agctggatga 300
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gaactgccga cgagaggtgc tccagcagct ggagactcag aagtctcctg aagagttggc 420
tgctctggtg aaggcagaac tgggcttcct ggagagctgc ctgcgggtga accccaagtc 480
ttatggtacc tggcaccacc gatgctggct gctaggcsgc ctgcctgagc ccaactggac 540
ccgagagctg gagctctgtg ccggtttcct ggaggtggat gagcggaaact ttcactgctg 600
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tctcttgccc cagctgcacc cccagccgga ttctggacca caggggccc tccctgagga 780
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tgccctgcatg tgagccggga csaggcctgt ctgactgtct ccttctctcg gscctcttta 960
rtgggctyca ggatkgagat cttgctgctc atgggtgatg aatctncccc tgattgtgga 1020
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gcanaaattg ggctggggca aggtggnntg gaaa 1114
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<210> 147  
<211> 546  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (486)  
<223> n equals a,t,g, or c

<400> 147

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ctcgggctga gtagtggcgt ggccgtgagg tccctgcgcc tgcgccctgg atggtcctgg 60
tgccgctccc gccttcgcag ccagcgcggg cttacctagt gttaagtctc tcttcttggg 120
tggcccacgc ctaagcgacc tatgcttctt gttcttctga aatcttacag ttccccttag 180
atgtaggttg gctattggta gcttccgatt cagataagtt tggaacttga cagatgtttt 240
cgggggggctg ctttagagag aggccttggga ctatgcaagg ggaggaagga ggttcagaaa 300
aacgggggtcg ggggggtcggc aggacgactc ttraartgtg gaagggtggaa gctgggaggg 360
gagataaagg gcaccraaga ccagcttggt tgctcctatc aaggatgatcc tttccagagc 420
aagagccata tgnatgtcta gtcgcacgag tttgtgccaa gtcctttgca aaaaccttca 480
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gatgtnggat ctcatgtaat cttgaagaca tcttagtcgt cctaagggtt aattatttaa 540  
ttgatg 546

<210> 148

<211> 1763

<212> DNA

<213> Homo sapiens

<400> 148

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ccgcgcactt cccgccctcc caccttcctt tcgcccttcc accakacctc cctcgacgcc 120  
cgacagctgc tctgggtact gtttccgggt cagggtgacc tctgggggtga ggaaactgcg 180  
actgggagcg ggacccagcg gtgcagcatt cgccatgctc cgctcacgcg tgggagactg 240  
ggctgtgggg taccggcccg gaaagcacgc agcctccaaa gccgccttcc tcagggaat 300  
ttgcgtgacc ttactgccct ccgtctacag gccttgtagc tctccaggcc gatttttcca 360  
caattttaa at cccagttcac ctggtatcca gctccagcaa cttagagcgt ttcacgtcac 420  
gccgggcgcc aggcgtcggc ttgtataacc tgaaaacgct cctgtttttc tcatctgtgc 480  
agtgggtttt gattcccacc atggccatca cccagtttcg gttattttaa ttttgtacct 540  
gcctagcaac agtattctca ttccataaga gattaatatg cagatctggc agaggacgga 600  
aattaagtgg agaccaaata actttgccaa ctacagttga ttattcatca gttcctaagc 660  
agacagatgt tgaagagtgg acttctctgg atgaagatgc acccaccagt gtaaagatcg 720  
aaggagggaa tgggaatgtg gcaacacac aaattctttt ggaacaactg gaacctgact 780  
attttaagga catgacacca actattagga aaactcagaa aattgttatt aagaagagag 840  
aaccattgaa ttttggcatc ccagatggga gcacagggtt ctctagtaga ttagcagcta 900  
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ggttacctga cctaaattag ataaattgta gggcttttagc tttcttattt ttgtcaaaag 1620  
ttggtgttga catacattcc ctctaatttg aactgggtatt gtttacgttt gatacaacat 1680  
taagggaatt gatgattttt atttcatgaa aatgacatta aatgcaataa ttttacttat 1740  
cataaaaaaa aaaaaaaaaa aaa 1763

<210> 149

<211> 371

<212> DNA

<213> Homo sapiens

<400> 149

aattcggcac gagcagactt gagagcaata aatgcaaacc taaatgagaa aatggaatcc 60  
ctgacagctg tgtccgtatc aagcatcagt ctctcaaaca gttgccccag cctgacagtg 120  
ctagtctctg tttaatggta aaaggagact ttgccataat tttcagatga agatgtttcc 180  
caaacactgt ttacagaatg agatgtgact ctacagatac ctcatagaag acaatccaag 240  
atcatacttc attaacttga cagagtacgt gtcttaaagg aagcatcagg aattccaata 300

tttgcmttta aaatactttt twagggcctt ttatatagg ccatgcttgg aaaactggat 360  
tttttttatt a 371

<210> 150  
<211> 432  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<400> 150  
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ggcgcccggc ctgcgcacgg gaacctggac tggaacccta cttgcaggtc cccaacttgc 120  
gtctctyctc tctgtctcta cccagccaa ggacaaagac ttctcctccg gaaggcctcc 180  
cccagctgag ggaacgttcc aggtcytccc tcggccctgg ctgcgcgccc ggtgccggct 240  
ctgacgtggt ttctctctccc ctgaggactg gtcctgctcg ctctcctggt cctccctcgc 300  
gggcgccttc ggytcctcct tcctctacgg ctacaacctg tcggtggtga atgcccccam 360  
cccggaagga caattttgnt gggccaataa atgggggtttt gaaatttntt gttggatttg 420  
ntgaatgggc tt 432

<210> 151  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<400> 151  
gaaagcaaag ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga 60  
cttggacctt gatggaaatg agagcscatt ggccctattg atgtctaacg gcagwacgaa 120

aaggggtgaag agtttatcca aatctcggcg aaccaagata gcaaagaagg tagacaaggc 180  
taggctgatg gcagaacagg tgatggaaga cgartttgac ttggrrttcag atgntgagct 240  
gcagattgac gagagattgg ggaaagagaa ggcgaccctg ataataagac caaaatttcc 300  
ccggaaattg ccccggtgca accttgctct gacccaacc gagttcgtga accaggagaa 360  
gttgagtttg acattgagga ggatatacaa cagatgaggg t 401

<210> 152

<211> 851

<212> DNA

<213> Homo sapiens

<400> 152

tctccggata actgtgctcc tgacatcctt ccttatgggt ttgggaactg gtctaagatg 60  
catacctata tcagacttaa tccttaaaag aagattaatt catggaggac agatgttaaa 120  
tggattggca ggtccaactg taatgaatgc agcaccattt ctctctacga cgtggttttc 180  
tgcagatgaa agggccacag ccacagctat tgcataatg ctcagttatc ttgggggagc 240  
atgtgcattt ttagttggac cacttggtgt tccagctccc aatgggacat cacctcttct 300  
tgctgcagag agcagcaggg cgcataataa agatcgata gaggctgtgt tatatgcaga 360  
atgtggagtt gtctgcttaa tattttctgc aacactagct tatttcccac cccgacctcc 420  
tcttcctccc agtggtgctg cagctagcca gcgtgagtta tcggagaagc gtttgtagat 480  
tattaagcaa ttttcgattt ttgatgattg ctttagcata tgccatacca cttggtgtat 540  
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caaggtttgc agattttatc aggggtatgc tgaaactaat tcttctcctc ctgttttcgg 720  
gagctacact gtcattccacg tggttcacc tgamctgttt gaacagcatc acacacctac 780  
ctttaaccac agtgacattg tatgcctcct gtattctcct gggagtgttc ttgaatagca 840  
gcgtgcctat a 851

<210> 153

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1663)

<223> n equals a,t,g, or c

<400> 153

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ggccttggtc agcatctagg tgccaacagg gcaagggcgg ggtcctggag aatgaaggct 120  
ttatagggct cctcagggag gccccccagc cccaaactca ccacctggcc gtggacacct 180  
gtgtcagcat gtgggacctg gttctctcca tcgccttgtc tgtgggggtgc actggtgccg 240  
tgcccccat ccagtctcgg attgtgggag gctgggagtg tgagaagcat tcccaacctt 300  
ggcaggtggc tgtgtacagt catggatggg cacactgtgg ggggtgtcctg gtgcaccccc 360  
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acaacctgtt tgagcctgaa gacacaggcc agagggtccc tgtcagccac agcttcccac 480  
accgctcta caatatgagc cttctgaagc atcaaagcct tagaccagat gaagactcca 540  
gccatgacct catgctgcty cgctgtcag agcctgccaa gatcacagat gttgtgaagg 600  
tcctgggcct gccacccagg agccagcact ggggaccacc tgctacgcct caggctgggg 660  
cagcatcgaa ccagaggagt tcttgccccc caggagtctt cagtgtgtga gcctccatct 720



cctgtccaat gacatgtgtg ctagagctta ctctgagaag gtgacagagt tcatgtttgtg 780  
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gttctggcat cacttggcct ttctggatgc tggacacctg aagcttggaa ctcacctggc 1080  
cgaagctcga gcctcctgag tcctactgac ctgtgctttc tgggtgtggag tccagggctg 1140  
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gaggtttgtt caggtcccc aaaccaccgt cagatttgat gatttcctag caggacttac 1620  
agaaataaag agctatcatg ctgtggttaa aaaaaaaaaa aanaaaaaga agtcgacc 1678

<210> 154

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1148)

<223> n equals a,t,g, or c

<400> 154

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gtggcctctg ctgtccctc agcacgaccc cgccaccaga agtccatgtc cacttctggt 120  
catcctatta aagtcacact gccaaccatt aaagacggct ctgaagctta ccggcctggt 180  
acaaccacaga gagtgcctgc tgcttcccca tctgctcaca gtattagtac tgcgactcca 240  
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cgggagcgac gcagcgttgc ttataatggg ccacctgctt caccatccca tgaaacgggt 360  
gcatttgcaa tgccagaagg ggaacgtcaa ctggtataat aagcaaaatc acatccaaat 420  
ttgttcgcag ggatccaagt gaaggcganc agntggcaga accgacacct caagaagtac 480



atcaggggaa ccaaaagaaa gagacaagga agagggtaaa gattctaagc cgcgttcttt 540  
gcggttcaca tggagtatga agaccactag ttcaatggac cctaatagaca tgatgagaga 600  
aatccgaaaa gtgtagatg caaataactg tgattatgag caaaaagaga gatttttgct 660  
tttctgtgtc catggagacg ctagacagga tagcctcgtg cagtgggaga tggaaagtctg 720  
caagttgcca cgactgtcac ttaatggggt tcgcttcaag cgaatatctg ggacatctat 780  
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tttacagggt caggaagat acatacatat atgagggtaca gtttttgaat gtactggtaa 900  
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ttatacatag ttatgaactg taaaattaaa gtcagtatga actataataa atatctgtag 1020  
cttaaaaagt aggttcacat gtacaggtaa gtatatgtg tatttctgtt cattttctgt 1080  
tcatagagtt gtataataaa acatgattgc ttaaaaaaaa aaaaaaaaaa aaaaattnct 1140  
gcggccgnca agggaatt 1158

<210> 155

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 155

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gaggacgcag ccgcgccggg gcgcagaaac accagctgag caccgggccc cgcgccgcgc 120  
cggaggaggc cgagacgctg gcagagaccg agccaggtaa gcggcgaggc cggggaaggg 180  
gggcagccca aggcggacce ccagagctcg ggggtgcagg acgcggggct ccgcggcgac 240  
aggcagaggg accttcccgc ctccgcagcc acgcgcgcgc ccccggaatg aaccctgagc 300  
cccagcgtca gggcggcgca ggattctgac accgcaggat tcgcccgggt ccgtgccttc 360  
cgttccctgg ggctcagaag ccggcgcgac tgcagcgcca ccgccttcca ccgtcccagg 420  
agcggatccc gcccgcgcgc acccgcgacg ggcgccagcc ccccggtagt tatgagaant 480  
aataataact tattaacagt gacaaagcag ggggtgacca gcaaagcctc cgtgtgcttc 540  
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gtccacttat tttctttcct gtcacttctg atgaggcgac cgaacgcctc gtttagcgaa 660  
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cacggcattt tccctgcctc cctctcccgc ctctcctcag cacacagatc cagaatcccc 840  
atataattct actagacagt agggagaaag ttcaaccacg aaacgtctct aactttgggt 900  
tcttgatgat tcttagcaaa tgaatgcgta ataaacatat ttactcactc ttcactccgg 960  
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cagctctcct cggagctggg agacttggag aagcactcct ctttgccggc cctgaaagag 1440  
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tgtactgcgt gggcagtga gccagcttt tkggtaatgc cagctcaggt gacaaccatt 1560  
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ggagcaagag tgtgcacacc aamgctattg gagatttgcg tggaaakctc agattcttca 1680  
ctggtgagac aatgaaacaa cagagacagt gaaagtttta atacctaagt cattcctcca 1740  
gtgcatactg taggtcattt tttttggttc tggctacctg tttgaagggg agagagggaa 1800  
aatcaagtgg tattttccag cactttgtat gattttggat gagttgtaca cccaaggatt 1860  
ctgttatgca actccatcct cctgtgtcac tgaatatcaa ctctgaaaga gcaaacctaa 1920  
caggagaaag gacaaccagg atgaggatgt caccaactga attaaactc 1969

<210> 156

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 156

aattcggcac gagaagaaag aaagaatgaa agaaagaaaa gaaaagaaag aaaggaaaga 60  
aaaaggaaag aaagaaagga aagaaaggaa agaaagaaag agagagaaag aaagaaggaa 120  
aaggaggaag ggaattccag gtatatacca ctgcatgagt aaaggcaggg ttgtggatag 180  
acatagttga tttgtagggc ccttgtttgc caagaatagt cctgctttac ccctgttgtc 240  
ctgatgtaat tattaataat actgcctcat tcagtcttaa ataagtcttg grtttggact 300  
agaaattata tggctaccyc tttatgtggg actaaaagta attccttgrg acmgggacnt 360  
ggagtnaggt gcccaaggaa agctagaagg tagttttntc 400

<210> 157

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<400> 157

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tgccaagtct gaaaattgtg tccacaagat ttgattggtg gtattttcta tcattgtaca 120  
acttaaaata tcttctaatt tccatttttt ttttttgaca tgagttgtat agaaatgtgt 180  
gcttcagttt ctgttatagc aacaactcct gtcacccata gccttacaaa aattcctaatt 240

tttaatatatt aaatttttaga attckacrag cagaattaca aaaagagtaa ctaacaagaa 300  
agtgagattg tgatgggata acggaatgtc aagtctaatt gtcaggaaaa gacaaaataa 360  
catgggaatg acaatcaaaa tggactaagg acttagaaga tccgaaacta tgaagctact 420  
aaaagaaaca ttgggggaatg ctccaggaca ttgggtctggg caaagatttc ttgagcaata 480  
ccttaaaaagg acaggcaacc caagcaaaaa tggrcagwtg ggwtcmcwtc magctaaaaa 540  
acttctacac agcgaaggaa acaaagtga cagaataaca tgggaatgtt ttctgtaatt 600  
tagtagtaac tggcaatagt ttacaaacac attttgtgta tactgctgtc attgcactga 660  
ttaccttctg ttgtagtgac tttgttctat tagtccactc aattaaaata tttggttttn 720  
tt 722

<210> 158

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 158

taatattcct ttggattcag agaccacaa ctaccagatt gtcaatcatg accaaaagtt 60  
gcttctcatc acttctacaa cccacaaatg gaaaaagaac cgagtgcag tgtatgagta 120  
tgatactagg gaagatcagt ggattaatat aggtaccatg ttaggccttt tgcagtttga 180  
ctctggccttt atttgccttt gtgctcgtgt ttatccttcc tgccttgaac ctggtcagag 240  
ttttattact gaggaagatg atgcacggag tagntctagt actgaatggg acttagatgg 300  
attcagtgag ctggactctg agtcaggaag ttcaagttct ttttcagatg atgaagtctg 360  
ggtgcaagta gcacctcagc gaaatgcaca ggatcagcag ggttctttgt aaatagtatt 420  
ttgagacact aagatgtttc tactgctacg gratgtattt taaacacata tcgtttcttt 480  
ttcttggaag aaaagttgat taggaccaca gatttggttt agaaagggtg atattttgaa 540  
atactacaag gtttagacag tccatgaatc gacctgttta ataatttacc atcctgaaag 600  
tccagaatta aaatatggaa gcaagaacta tataattgat taggatgctt ggtaggtttt 660  
tttcattgtt caaatattca ttgcacagtg gattgttttg attagttagt atgctttttt 720  
tttaattaat tcagtcttct gttaattttt aagttttggt tagtgccaca aggaatttaa 780  
cttttttgatt tgtataatag aaaactgaac taggaattgt tagcggggtt ttgaaggatg 840  
tgtactttcc ttcaaaaataa agtggttagat tttcaaaatt ttacactagt cagttcttta 900  
tattctaagt taaatgtagt ttgtaaaatt attttggttt tcttctacaa aggaaaaaat 960  
tggattttata tatataaggt tactgcataa tgatttcatt ttgataatgt gcagaatggc 1020  
ctcataagct cacagaaagt aaaaaaaaaa aaaaaaaaaa aagaaaaaat caggattcca 1080  
ctgtttttaa agaaatctca gtttttattt tgggaatataa aatgtgtatt tggatatatg 1140  
gaccaatttt ctatcccaa aaacacccat tcttagtaat gtcatgaatt aaacaccctt 1200

<210> 159

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<400> 159

```
ttcggcacga gagaaaagta aaaaaaagaa agaaagaaag aaacaaacaa acaaaacaac 60
tggcatatat atatctccta aatacaggaa gaagtattca taatctcact ctttagcatg 120
gtacaaagct aaccacaact aawttattgt atataargcc acgtgaagtg stgtgtgaca 180
gccttatttt gtgaataggg ctgagaaaac cagttcaa at tctcctgaga ctatttcaga 240
ggrgttaaaa tttgaactcg tttaaaaatc atgrttttatt tacttaatat taagtttagg 300
ttaacgggca gaaaangagg ngcctggggg catcacccaa atttt 345
```

<210> 160

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 160

```
aattcggcac gagagacacc agagtgaagg agagaggcca tgctgtgtcc gagaagctcc 60
tactggggtg gaagggacag ctccacaaag gctgctcttg caggggctct cctgcagcaa 120
ggtgcctgct gactgtcccc agactgtctc ccgacacaga gggatgcaaa ggcagcctct 180
tcttgcctcag tggaataggg aaattatata acctttcact tcccactctc acttctgccc 240
ctgctaccct tagtcttttg cttttgctga cattttcccc tcttatcttt tctcctgacc 300
aagttctagg tntttcatag ggcagtctta ggtgagggtt ggaaccccaa tgaagttggg 360
caacagaaac ccagctnaca atggctgttc actgtgggca agctgtttcc ccttcatctt 420
ntaaaagtgg aggtgggggt agtgtatgag tctgggtttc cattcctgtg tgtgtg 476
```

<210> 161

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<400> 161

```
aattcggcac gagctgcgcg cggctacagc acggttcggt tttccttttag tcaggaagga 60
cgttggtggt gaggttagca tacgtatcaa ggacagtaac taccatggct cccgaagttt 120
tgccaaaacc tcggatgcgt ggccttcttg ccaggcgtct gcgaaatcat atggctgtag 180
cattcgtgct atccctgggg gttgcagctt tgtataagtt tcgtgtggct gatcaaagaa 240
agaaggcata cgcagatttc tacagaaact acgatgtcat gaaagatttt gaggagatga 300
ggaaggctgg tatctttcag agtgtaaagt aatcttggaa tataaagaat ttcttcaggt 360
tgaattacct agaagtttgt cactgacttg tgttcctgaa ctatgacaca tgaatatgtg 420
ggctaagaaa tagttcctct tgataaataa acaattaaca aataaaaaaa aaaaaaagg 480
ggggggcccc tctaaaagggt ccaagcttac gnacgggtgn 520
```

<210> 162

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 162

```
aattcggcac gagcgcgcct ccacgcccag ctaatttttg tatttttggt agagacgggg 60
ttcttcacg ttggctaggc tgatcttgaa ctctgacct caagtggnt gcctgcctca 120
tcctcccaa gtgctgggat tacaggcgtg acacctgcac ccacccatgc tctagtacat 180
cctaaagaat gccttttagtt cctctttcct gacattactc tgcttaaatt cccagattc 240
aagctttttg agaatcctat ctgagcattt tgggcatcag gccatgttat atataggtrc 300
acaacttcta ggccttggtt agttggacag gttnaaaag 339
```

<210> 163

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 163

aattcggcag agcagaacat tggatatgagg cacatgactg tagatcttct cattaataat 60  
aggcaacctg gtcagggtgca cgartctagg gttcagaatc caacaggctc aaattcaagt 120  
ccagctcagc cacgtggctg atgctgtctg aacctcagcg tcctcagctg ttaaacagag 180  
gtaaccatcc ccatctcagc agctttggga ggaaattaaa tgagatatat tggggatcca 240  
gataaccaat aaaatatcaa atcactttac cagttcaagc tcttaccact tcagtgattg 300  
catgggcttt atcactgacg gatggaactc aggggttcca gnggttcgng acccagc 357

<210> 164

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 164

ggcacgagct tggcctccag agtgctggga ttacaggtgt gagctaccgc gcccggccta 60  
ttatcttgta ctttctaact gagccctcta ttttctttat ttaataata tttctcccca 120  
cttgagaatc acttgtagt tcttggtagg aattcagttg ggcaatgata acttttatgg 180  
gcaaaaacat tctattatag tgaacaaatg aarataacag cgtattttca atattttctt 240  
attccttaaa ttccactctt ttaacactat gcttaaccac ttaatgtgat gaaatattcc 300  
tanaagttaa atgactatta aagcatatat tggtgcatgt atatattaag tagccgatac 360  
tctaaatara rataccactg ttacagataa atggggcctt taaaaatatg aaaaacaaac 420  
ttgtgaaaat gtataaaaga tgcactctgt gtttcaaagt gcactrtctt yttttcagta 480  
ctacaaaaac agaataattt tgaagtttta gaataaatgt aatatattta ctataattct 540  
aaatgtttaa atgcttttct aaaaatgcaa aactatgatg tytagttgct ttattttacc 600  
tctatgtgat tatttttctt aattgttatt ttttataatc attatttttc tgaaccattc 660



ttctggcctc agaagtagga ctgaattcta ctattgctag gtgtgagaaa gtggtggtga 720  
gaaccttaga gcagtggaga tttgctacct ggtctgtgtt ttgagaagtg ccccttagaa 780  
agttaaaaga atgtagaaaa gatactcagt cttaatccta tgcaaaaaaa naaaatcaag 840  
taattgtttt cctatgrgga aaataaccat gagctgtatc atgctactta gcttttatgt 900  
aaatatttct tatgkctcct ctattaagrg tatttactaa aactctgtaa tctccaaaat 960  
attgctatca aattacacac catgttttct atnattctca tagatctgcc ttataaacat 1020  
ttaaataaaa agtactattt aatgatttaa aaaaaaanaa aaaaaagaaa aaaaaaaaaa 1079

<210> 165

<211> 1325

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 165

ttaaaacaag atacatacat agtataacac acctcacagt gttaagatTT atattgtgaa 60  
atgagacacc ctaccttcaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120  
ggacaaatga ttagccctaa atgaaactgt aataatttca gtggaaactc aatctgtttt 180  
taccttttaa cagtgaattt tacatgaatg aatgggttct tcactttttt tttagtatga 240  
gaaaattata cagtgtctaa ttttcagaga ttctttccat atgttactaa aaaatgtttt 300  
gttcagccta acatactgag ttttttttaa ctttctaaat tattgaattt ccatcatgca 360  
ttcatccaaa attaaggcag actgtttgga ttcttccagt ggccagatga gctaaattaa 420  
atcacaaaag cagatgcttt tgtatgatct ccaaattgcc aactttaagg aaatattctc 480  
ttgaaattgt ctttaaagat cttttgcagc tttgcagata cccagactga gctggaactg 540  
gaatttgtct tcctattgac tctacttctt taaaagcggc tgcccattac attcctcagc 600  
tgtccttgca gttaggtgta catgtgactg agtggtggcc agtgagatga agtctcctca 660  
aaggaaggca gcatgtgtcc tttttcatcc ctteatcttg ctgctgggat tgtggatata 720  
acaggagccc tggcagctgt ctccagagga tcaaagccac acccaaagag taaggcagat 780  
tagagaccag aaagacctg actacttccc tacttccact gctttttcct gcattkaagc 840  
cattgtaaat ctgggtgtgt tacatgaagt gaaaattaat tctttctgcc cttcagttct 900  
ttatcctgat accatttaac actgtctgaa ttaactagac tgcaataatt ctttcttttg 960  
aaagctttta aaggataatg tgcaattcac attaaaattg attttccatt gtcaattagt 1020  
tatactcatt ttcttgccct gatctttcat tagatatttt gtatctgctt ggaatatatt 1080  
atcttctttt taactgtgta attggttaatt actaaaactc tgtaatctcc aaaatattgc 1140  
tatcaaatta cacaccatgt tttctatcat tctcatagat ctgccttata aacattttaa 1200  
taaaaagtac tatttaatga ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
aaaaaaaaag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320  
aaaaa 1325

<210> 166

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 166

```
aattcggcac gagtttgcac ccaaattggt tgacctttgt gcagtggctc ccattatcaa 60
ctggggaacc agtacaatct ttacctagtt actactgagg ttgttctctc tccatcacaa 120
aatttcatgc tatttatctg tgagaaaatg cctgaggact ttcacacagt aattcatctt 180
atctggaacc cttaggatca gatgtagacc gagcaaattg caagttcaca gagaacacct 240
gtgtcttcag aacattaaag ggcaccatta gagcttggtt cccttcactt tacatgcaca 300
tttttggsat aagttngggg ctkratgatg ttgtcatags naatactgct agratgrttg 360
ctgtactcat tcactnccaa aaaagggggg gntg                                     394
```

<210> 167

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<400> 167

```
ataattgcgg ctctttctcc tattcagatt ttacccagtg atggaaaaga tcaattttct 60
tgtggaaatt cagtggctga ccaagccttc cttgattctc tctcagccag cacagctcag 120
gncagttcgt cggctgccag caacaatcac caggtagctc tcaacttctc cttctggatg 180
tggtggctt tacggaaaac agagcgtatt tgtgnaaggc ttgtgatgca ttatagctat 240
tgccattccc caaaagcaaa aacaaagtcg ctttaggttg ttctgtggca tttctgttgg 300
gtactaacia agaaatcacc tgttwagcct gataatgact gtttgcaaatt ttattataag 360
agaaaaggca ggtgtattgag ggttgctttt aggaagtctn nccatgatata ggaacacaga 420
ccccagaaac ttgcaaatac cctcttaggt taaggcatgg aaagaggagg angagagagg 480
tcttgtttgt tgaggaggtc catgtcaggc cttggcc 517
```

<210> 168

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 168

```
cttccctcag cccttggcca acagcattct actttctgtc tctacggatt tracacttta 60
gtagcctcat gtaggaagaa tcataatact tgtytttttg tgactggctt atttcactta 120
gcataatatt ttcaatgttc atccattttg aagctccatg tgagtgggca ggaacttggt 180
aactggaggc cttcactgag aagtgattaa ggtgatgaat acctgccagt gcagtggctt 240
cacacctgta ctccagcact ttggggaggc caaggcagga agatcatttg agccccagga 300
tttsgggacc accttkggca atatagtgag acccngtggt t 341
```

<210> 169

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 169

```
ttcggcacga ggtcttgact cctaccccc tacaacacat ataaaatcag ttccagatag 60
atcacacatc taaatgtgaa atgcaaaata ataaagcttt aagaaaaaaa gtaatggaac 120
catcttcatg atcttagagt aagtagagat ttattaagta ggatattaaa ggaacactat 180
aaatttaggg aaaaaatcaa tatattgatt atattaaaat taaggaactt ttcctcatta 240
agaggccaca aagtatttgt agtatacaca tccaacaaaa gttccatatt ccngaattwtw 300
tgganggaat nccnatggta cgttaaaaaa aggccagncc cangggggggg 350
```

<210> 170

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<400> 170

```
aattcggcac gagacatggt gaacctgggt tctacataaa atacaaaaac ttagatgggc 60
atggtggtgt gtgcctatag tccactact tgtgggggcta aggaggagg ntcacttgag 120
ccccggaggt cgaggctaca gtnagccaag agtgcactac tgtactccag ccagggaag 180
agagcgagac cctgtctcaa taaataaata aataaataaa taaataaata aataaataaa 240
```

```

taaaaaaaaaa caaagttgat taagaaagga agtataggcc aggcacagtg gctcacacct 300
gtaatccttg cattttggaa ggctgaggca ggaggatcac tttaggcctg gtgtgttcaa 360
gaccagcctg gtcaacatag tgagacaytg tytytaccaa aaaaaggaag gaagggacac 420
atatcaaact gaaacaaaat t 441

```

```

<210> 171
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

```

```

<400> 171
ttttcatgaa cctcttccct gggaaacctt atgactcaac agtcaaagggt gtccgaatag 60
taaagatggg tttcagtgat caggctctgtg cccatgcctg gccttggata gactctgaaa 120
tgagattcct tgtttgattg atgggggtgat ggtttctgtt gtgtacattt gaaggaaacc 180
agtttcccca cccaaaattt ctaaggagtt taatcttttg ggtrtagggg agttaaacta 240
cactgagtca aggaagtaat tgattgcata tttcctctaa aagtcagcta tggrrtgata 300
ttgactaaaa caaactagca gttctcttcc accaccaagt cmgagcgtct gttcaccatt 360
ctgcatgggt aaaagracc acttagggat gggtaatgnt ncc 403

```

```

<210> 172
<211> 984
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

```

```

<400> 172
caagatatatt acttccgctc caaacaaaga tggggccagct aacgagcncg ggggaaacat 60
ccgcccggaa ggccacttga aggcacttcc gccctctctt aacatggagc cggcggaaagg 120
ggtggtgtag ggccgggcca taatggcggc gtcgaggctg gagctaaacc tggtgcgget 180
gctatmccgc tgcgaggcga tggcagcgga gaaacgggac ccggacgagt ggcgcctgga 240
gaagtacgtg ggagccctag aggacatggt gcaggccctg aaggtccacg cgagcaaacc 300
ggcctctgag gtgatcaatg aatattcctg gaagggtgat tttctgaagg ggatgctgca 360
agccgagaag ctgacctcct cctcagagaa agcactggcc aaccagttcc tggcccctgg 420
ccgtgtgcca accacagcca gagagcgagt gcccgccaca aagacggtgc atctgcagtc 480
acgggcgcgg tacaccagcg agatgcggag tgagctacta ggcacggact ctgcagagcc 540
tgaratggac gtaaggaaga gaactggagt ggcagggtcc cagccagtga gtgagaagca 600
gtcggcagct gagctagacc tcgtcctgca gcgacatcag aacctccagg aaaagctggc 660

```

ggaagagatg ctaggactgg cccggagcct caagaccaat accctggccg cccagagtgt 720  
catcaagaag gacaaccaga ccctgtcaca ctactgaaa atggcggacc agaacctgga 780  
gaaactgaag acggagtcag agcgtctgga gcagcacacg cagaagtcag tcaactggct 840  
gctctgggcc atgctcatta tcgtctgctt catcttcatt agcatgatcc tcttcattcg 900  
aatcatgcct aaactcaaat aaagaccccc gcccaaaaaa aaaaaaaaaa aaaaaaaaaa 960  
aaaaaaaaaa aaaaaaaaaa aaaa 984

<210> 173

<211> 1194

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<400> 173

```
cgnggcggna anntantggc cccccccctaa aggggaacaaa agctggagct ccaccgcggt 60
ggcggccgct ctagaactag tggatcccc gggctgcagg caaaagggan aattcaaaat 120
ttagaaaaaa cattagaaat gttaatatgg gatatttttg acttaagaca ttcagaaaag 180
ttaatgtttt aacacgatat gtgattatag aattctattc atatatgtgt tcacatttat 240
acactttgct atactttgta tttataaata taattctggt agataaataa gtgattcata 300
ttttgtcaaa actattttta aatttcaata tttaaaatat ttttgaatca ctgggttttcg 360
ttaagtggca tcatagrtga gatttgattc catgtagcat ataatttttag attgttcctc 420
tctcacccct tttaaactcc ttcaagcatt gctattactg gggttgcctt tgggaaaact 480
tacttctaga tactaccata tatctgaaat agtagagggt gatgttaata aaattcataa 540
aataatcatg tattactttt tttgatttac cactggaagg aaatacagtc atgtgcaata 600
taatgacgtt ttggtcattg agaccacat gtgtgacagt ggtcccataa ggatgttgct 660
gaaaaattcc tggtgctgcc tagtgacact gtagccatcg taacgccata gcacgacacg 720
ttactcacct gttcatggtg atgctggtgt aaacaaacct gtgctgccag tcatacaaaa 780
gtatagcaca atgacaatta tgtacagttt atcataattc ttgataataa atgactatgt 840
tacaggttta tgtattgatt ccactttttg tcattatttt ggaatgtact cctactaatt 900
ataaaaaaga aaagggttaac tgtaaaaaag cctcaggcag gtccttttagg aggcattcca 960
gaagaagaca ttgttaccat aggagatgac agctctatgt gtgttattgc ccctgaagac 1020
cttctagtgg gacaggatat ggaggggaaa gacagtgaca ttgggtgatcc tgaccctgtg 1080
taggcctagg ctaatgtgtg tgtgtcctcg tttttaacaa gaaagttaa aaagtaaaaa 1140
aaaaraaaaa ggnctcgaga aaggggcaaaa gggcncttgg gcaaatggca gnac 1194
```

<210> 174

<211> 701

<212> DNA

<213> Homo sapiens

<400> 174

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gcttccactg atcttgccca tctgatgtta ccatgtttgt tgtaaaggaa gagactggca 60
ttctggacaa ctggcatcag agactggctg acatggagaa cccactctgt gtgtgctgag 120
grcagggcac tcaccagtgc agaggcagaa gtgggtgcct gtcctcgagg gttaaccgcg 180
tttgccctcc gccacagcc cctccacctt ctaaaagctc aagagatgat cagactgaaa 240
caccgcacca tcttgctggt ctgcctaggc tggaagacct ggcccaggtc atggaggccc 300
ctgctccact tgccagattc gcaggagtct tctgaccaga gctgtcgcac cttgctgctg 360
ccactggcac tgctgccatt ctcatcctct tgggggcctt cattggtgcc acattctttg 420
tagccacctg ggctgtcagc catgagggaa ggaccctcgt tttagtctcg gattgtaagg 480
tttccatctc tgtaccttct cacaagaag agtcagggcc caagcttaat gacctgtttt 540
ttaattcagg aaggtaaata tcgttctctc gtcacacccg gaattacagg tccatttgct 600
ctcagtggga gttgatcttt gattcctaca aagaacaata aagtccggtg aattcccata 660
aaaaaaaaaa aaaaaaaact cggggggggg ccccggtaac c 701
```

<210> 175

<211> 1181

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<400> 175

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tgggganatt tccccgaacc ggcnttcccc ggtcgaccca cgcgtccgcg gacgcgtggg 60
ccaaagtgtt gtgtgtgtnt gtgtgagtgg gtgcgtggta tacatgtgta catatatgta 120
taatataat ctacaatata tattatata atctatatca tttttctgtg gagggttgcc 180
atggtaacca gccacagtac atatgtaatt ctttccatca cccaacctc tcctttctgt 240
gcattcatgc aagagtttct tgtaagccat cagaagttac ttttaggatg ggggagaggg 300
gcgagaaggg gaaaaatggg aaatagtctg attttaatga aatcaaagt atgtatcatc 360
agttggctac gttttggttc tatgctaaac tgtgaaaaat cagatgaatt gataaaagag 420
ttccctgcaa ccaattgaaa agtgttctgt gcgtctgttt tgtgtctggt gcagaatatg 480
acaatctacc aactgtccct ttgtttgaag ttggtttagc tttggaaagt tactgtaaat 540
gccttgcttg tatgatcgtc cctgggtcacc cgactttgga atttgcacca tcatgtttca 600
gtgaagatgc tgtaaataagg ttcagatttt actgtctatg gatttggggg gttacagtag 660
ccttattcac ctttttaata aaaatacaca tgaaaacaag aaagaaatgg cttttcttac 720
ccagattgtg tacatagagc aatggttggt ttttataaag tctaagcaag atgttttgta 780
taaaatctga attttgcaat gtatttagct acagcttggt taacggcagt gtcattcccc 840
tttgcaactgt aatgaggaaa aaatggtata aaagggtgcc aaattgctgc atatttgtgc 900
cgtaattatg taccatgaat atttatttaa aatttcggtg tccaatttgt aagtaacaca 960
gtattatgcc tgagttataa atattttttt ctttctttgt tttattttta tagcctgtca 1020
taggttttaa atctgcttta gtttcacatt gcagttagcc ccagaaaatg aaatccgtga 1080
agtcacattc cacatctgtt tcaaactgaa tttgttctta aaaaaataaa atattttttt 1140
cctatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1181
```

<210> 176

<211> 489

<212> DNA

<213> Homo sapiens

<400> 176

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aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctgggtga 60
cagruggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataatata gcaggtataa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttcct tccagtgtga acacagcagg tgtgagatgt 300
catcttgga gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaaaa ttttactcaa aagttgcatc 420
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tggaagttcg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480  
aaaaaaaaa 489

<210> 177  
<211> 253  
<212> DNA  
<213> Homo sapiens

<400> 177  
aattcggcac gagcccggg cagggcacaca ggcccagggtg tgtagggccac agcagccgca 60  
gtcctgaaag sctgcaacac ccagacctcc aggagagacc aggcccagga tgcctcgcct 120  
gttcttggtc cacctgctag aattctgttt actactgaac caattttcca gagcagtcgc 180  
ggccaaatgg aaggacgatg tkattaaatt atgcggccgc gaattagttc gsgcgcarat 240  
tgccattttg ggg 253

<210> 178  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (214)  
<223> n equals a,t,g, or c

<400> 178  
aattcggcac gagagcttat tcattgaagg agtaagtggc tgctcactcc tttctgctga 60  
aactctttcc tgccttgta gcctagtgtg gaatgggagc agggtcacag tgaaagagct 120  
gaatctcccc acccaccac actgcagcag gctgcggctg gccgacttgt taattgccga 180  
gcaggaacac agcagcaagc tgcgggcacc cctnacttgc tacagttgat ggctgtgtgt 240  
ctctcccagg acctagagaa aaccgcgscct gtgtacgagc gcatcactat cggcacattg 300  
ttcatgtcct tcatgaacgr gtaaaactgct gtttccgtgg rttttcaaaa aaaaaaaaaa 360  
aaaaaaaaaa aa'aaaaaaag ctcgagggtg ggc 393

<210> 179  
<211> 465  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<400> 179  
attataagcg acgatgggtc tggtgctatg aacacagcag tcggtccttg tcattgtcca 60  
cccaggagtg gccttggtta ttccaagtgg catgtatctt ccctctgagc ttcattttctt 120  
caagatgctc tgggtggtgg gatgggagac catcctgcag ccctcctcag accttatcaa 180  
ttcattgaga gattgcaaag ctgaaagcac ctccggccac tcctgggaga cagacccttt 240  
ggtgatgaaa taaaccagtg acttcagagc ctatggtctc aactgtgctt gaaaaacact 300  
gtctctgaaa acaactttgt gattctccct gctccctgtg gacaaaagca cataattctg 360

ctgttacggg tacttgnstc atacgagctt tcatgttcag catgcaatgg aatcatgctt 420  
gtccatgtga aataaatatg gctctctcgt gtccttaaaa aaaaa 465

<210> 180  
<211> 532  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (68)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (140)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (496)  
<223> n equals a,t,g, or c

<400> 180  
cttgggttca gggaaaccag agattatacc aagacgggtc attctgcgcc atggaaaaca 60  
tccttggnat ttaattgctg ctgacaataa aggtaagggc tgggcttgga tacagcattc 120  
cccagataga gatgctagan aaagtgcata gctatggggg gcacagctct gtttgccttc 180  
atcattgtaa cccgtagaaa gaaaacttga gtaagggtcaa ggtttccatg ctttccttaa 240  
agtgtggagc cttttattcc atgaaaagggt tatacaaaaa tccagggttat caagcaaata 300  
aacaagcagt tcttactcag ataaacaaga tacaccccct caccctacct gctcaatttc 360  
tctttctcca ctcccccaaa cccacctcca ttgtagttcc tgcagggggg cccgtaagyt 420  
tattttgaaa atcactaggg tgggctkggg cgcggtggst tcaggatgtw aatyccagca 480  
ctttgggggrg ggcccnggga aggcagttca ttttgggggtc aagggggttt tg 532

<210> 181  
<211> 814  
<212> DNA  
<213> Homo sapiens

<400> 181  
aattcggcag agtaaaattc aaataattat aagcatttgg caaaaacaag agaaaagaaa 60  
cttgccatat ttacaagct gcaatttttag aaaagcttta acttaatgat agttttatca 120  
ttgttttctt gtcccaaact tatccagggc catagaagta tgaatctaata taaaacagaa 180  
atgggaatta ttgcacagaa atgggaaata actaatttta aatcagtcaa attggcttct 240  
tattaaatac aataattctt atgraaatca tagtacccta ttttcagaca cagctgccag 300  
tttacacatt tctcagtatc ctgaarggra aaaagtatag ccccrcttat actatgtaaa 360  
attaccaata aaatattttt atgactacag attttgcatt tttgtttaca actattttaa 420  
gagttttatg ttgtatttag aatttcaacc tagaaaccac acagtactta aattctcctg 480  
gggtctcctg ctttctctta accatttgct taatatatat ctacctaaag gagacttctg 540  
aattgtaaat gaacttaaaa atagaatgtg gatgcaaaat atcacataag acatcatgat 600  
aacatttgaa gaaaaaataa aactgtagac cctaacagtt gtgatatttg gtggkttcat 660

gtggtaatgt aattttctgk ttaattacag tactttttac aggcacagtg gkactgtctt 720  
ttttgtaaga tgcyagttgt gaaatacaat taattgcata cagtaaaagt ctgtgattaa 780  
aacatttata tacctcaaaa aaaaaaaaaa aaaa 814

<210> 182

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<400> 182

taattcggca cgaggaacca ctgttcctta caggtaagcc agcatgatag ttagaccaa 60  
ccatcccaat agagacttgg catgcattca acaaacatcc cagggtgccta ggggtgtgccc 120  
agcaccattc caggagctgc cagtaaagga aacaagactg ctgtgaggcc aggtgcggtg 180  
gctcacatct gtaatctcag cactttggga atgccgaagt gaggatgac cctgaggtca 240  
ggagttcaag accagcctgg gccaacatgg tgaaacccca ttttttactt aaaaaaaaaa 300  
aacttggggg ggggncc 317

<210> 183

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 183

tataaaagaa aaaaaaaggc tgtacaaaaa tttcttttrt acagagactg trtaaaagaa 60  
aaaaaaaaag aaatacmtgt gttcttaaaa ccatttgtat attttcattt ctagaccaca 120  
ctgtagctaa ttattgttat taaatgttaa gataatttaa gtatataana taagtattga 180  
nccgggcatg gtggctcacc cctgtaaatc tcagcacttt gggaaggctg aaggcggggg 240  
gtt 243

<210> 184

<211> 1148

<212> DNA

<213> Homo sapiens

<400> 184

aattcggcag aggggccata caaaaatttt ggacttggtta ataccactta ctaaccgggc 60

ctgtaacact gggctaaaca aagtaagccc tgtttactca gcagtgtttg ggggacatga 120  
agattgccta gaaatattac tccggaatgg ctacagccca gacgcccagg cgtgccttgt 180  
ttttggattc agttctcctg wgtgcatggc tttccaaagg agtggagctg tragttcttt 240  
ggaattgtga acattctttt gaaatatgga gccagataa atgaacttca tttggcatac 300  
tgcctgaagt acgagaagtt ttcgatattt cgctactttt tgaggaaagg ttgctcattg 360  
ggaccatgga accatatata tgaatttgta aatcatgcaa ttaaagcaca agcaaaatat 420  
aaggagtggg tgccacatct tctggttgct ggatttgacc cactgattct actgtgcaat 480  
tcttggattg actcagtcag cattgacacc cttatcttca ctttggagtt tactaattgg 540  
aagacacttg caccagctgt tgaaaggatg ctctctgctc gtgcctcaaa cgcttggatt 600  
ctacagcaac atattgccac tgttccatcc ctgacccatc tttgtcgttt ggaaattcgg 660  
tccagtctaa aatcagaacg tctacggtct gacagttata ttagtcagct gccacttccc 720  
agaagcctac ataattatct gctctatgaa gacgttctga ggatgtatga agttccagaa 780  
ctggcagcta ttcaagatgg ataaatcagt gaaactactt aacacagcta atttttttct 840  
ctgaaaaatc atcgagacaa aagagccaca gagtacaagt ttttatgatt ttatagtcaa 900  
aagatgatta ttgattgtsa gatagggttag gttttggggg gccagtagtt cagtgagaat 960  
gtttatgttt acaactagcc ttcccagtaa aaaaaaaaaa aaaaaaaatt gtaaacaatca 1020  
cttatattac tttattgcag cttcatcacc agtacattat atgttgtaat atttatttac 1080  
ctgatcattt tgatcatttt ctgctttatt ttgctaataa actgtgatgt tacttctaaa 1140  
aaaaaaaa 1148

<210> 185

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 185

gtactttaac aattcmcart actatagtay tgggaattgt taaaagtaca ttcctctgaa 60  
agataagaat cactggcttc tatgcgcttc ttttctctca tcatcatgtt cttttacccc 120  
agtttcctta cattttttta aattgtttca gagtttggtt tttttttagt ttagattgtg 180  
aggcaattat taaatcaaaa ttaattcatc caatacccct ttactagaag ttttactaga 240  
aaatgtatta cattttatct tttcttaatc cagttctgca aaaatgacct ataaatttat 300  
tcatgtacaa ttttggttac ttgaattgtt aaagaaaaca ttgtttttga ctatgggagt 360  
caactcaaca tggcagaacc atttttgaga tgatgataca acaggtagtg aaacagctta 420  
agaattccaa aaaaaaaaaa aaaaaaaaaa aaaaagcaaa actggggttg ggctttgctt 480  
taggtatcac tggattagaa tgagtttaac attagctaaa actgctttga gttgtttgga 540  
tgattaagag attgccattt ttatcttgga agaactagtg gtaaaacatc caagagcact 600  
aggattgtga tacagaattt gtgagggttg gtggatccac gccctctcc cccactttcc 660  
catgatgaaa tatcactaat aaatcctgta tatttagata ttatgctagc catgtaatca 720  
gatttatcta attgggtggg gcagggtgtg atttacttta gaaaaaatga aaaagacaag 780  
atztatgaga aatatttgaa ggcagtacac tctggccaac tgttaccagt tggattttct 840  
acaagttcag aatattttta acctgattta ctagacctgg gaattttcaa catggtctaa 900  
ttatttactc aaagacatag atgtgaaaat ttaggcaac cttctaaatc tttttcacca 960  
tggatgaaac tataacttaa agaataatac ttagaagggt taattggaaa tcagagtttg 1020  
aaataaaaact tggaccactt tgtatacact cttctcactt gacatttttag ctatataata 1080  
tgtactttga gtataacatc aagctttaac aaatatttaa agacaaaaaa atcacgtcag 1140  
taaaatacta aaaggctcat ttttatattt gtttttagatg ttttaaatag ttgcaatgga 1200  
ttaaaaaatga tgatttaaaa tgttgcttgt aatacagttt tgcctgctaa attctccaca 1260  
ttttgtaacc tgttttatct ctttgggtgt aaagcgtttt tgcttagtat tgtgatattg 1320  
tatatgtttt gtcccagttg tatagtaatg tttcagtcca tcatccagct ttggctgctg 1380  
aaatcataca gctgtgaaga cttgcctttg tttctgttag actgcttttc agttctgtat 1440  
tgagtatctt aagtactgta gaaaagatgt cacttcttcc ttttaaggctg ttttgtaata 1500

tatataagga ctggaattgt gtttttaaag aaaagcattc aagtatgaca atatactatc 1560  
tgtgttttca ccattcaaag tgctgttttag tagttgaaac ttaaactatt taatgtcatt 1620  
taataaagtg accaaaatgt gttgtgctct ttattgtatt ttcacagctt tgaaaatctg 1680  
tgcacatact gtttcataga aaatgtatag cttttgttgt sctatataat ggtgggttctt 1740  
ttgcacattt agttatttaa tattgagagg tcacgagttt ggttattgaa tctgttatat 1800  
actaaattct gtaaaggagg atctctcatc tcaaaaagaa tttacatacc aggaagtcca 1860  
tgtgtgtttg tgtagttttt ggatgtcttt gtgtaatcca gccccatttc ctgtttccca 1920  
acagctgtaa cactcatttt aagtcaagca gggctaccaa cccacacttg a 1971

<210> 186

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 186

aataacaatg taattatttt yggcakascc ttgcctgact tctgaggacc tactaagtc 60  
tagttctagc cttttagtaa tggcctaactt ctttcatcaa ggctttgggt tcattactgg 120  
tgtctgaatt agttccactc ctagcttgac ccagatttta gtttttatta tggatttttt 180  
cttcaaactt gtttatttaa tattaagttt tcatttttgg cagcatatgg atgattttat 240  
ttttaataat catatctctt agtaaactaa tggktaaata atattaaagt ataagaggct 300  
aaaattgggc caggtgtggt ggctcacgcc tgtaaatccc cgcactttng ggnggctgag 360  
gcaggn 366

<210> 187

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<400> 187

aattcggcac gagaaagagt tgccaaaaat aaaaaatatt attgtaaggt aaaaaatttc 60  
ataaatgggc ctaatagtgg gatggatata actgaaaact aagatggtga tgaggaagac 120



agtcagaat aaatatacca aagtagcaaa gaaatacctg tgcaagtaga atagcttgct 180  
tcaaacagat gagatttgct ctcccaacat caaaacatat cacaaaacta cagtaattaa 240  
gtccctttga ggccagcact gactgggrta agcaaatagr taaatgggat gtaacaggcc 300  
ttattttcaac taatagggtg ttcaccactc ctagttgggt ncctgtttcc 350

<210> 188

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 188

aattcggcac gagtgtaaac accttttnata caaatgccat catcccattt ttactgatta 60  
gaaaaacttt gctattaata ggtgcaaagt ccatttcagg tataattggt aaggaactga 120  
gtgcactcat gggaagaaac cttgttttgt tttttgttcg cttttcttct tatccccctt 180  
tctcagtttt atggctggag acatgattta ttgcagccat ccattctggg ggctcatcca 240  
tcacacccgg gttgctagga gattgtggca gcagctgttt gctctgaatc agacagaaaa 300  
gttgtcaatc atcaaaggca ggtgaatagc attagaaaca cgstattgtc agacggaata 360  
attaatcaaa gagag 375

<210> 189

<211> 365

<212> DNA

<213> Homo sapiens

<400> 189

tcagacaaaa attctgtgga cagctgcgag gaattcactt ttcctctgaa actcatagcc 60  
ctctcctgaa tacatatggt gtgcactaac acttgccatt atctgaaact catagcccta 120  
tcctgaatgc atatgctgta gggtaccact tgccattgga ggtcttggag gccatatact 180  
gtaggagcag ggtagccatg ggacttaact actattatcc cccaaaaatg ttgtgtttgt 240  
gaattcacct gactgaggaa tccctaawta ttcatacagat atttcaaaaag grtccatgtt 300  
ccmaagragg rggtttagta ttgatttttg gttgggtttg ttttatttga ggcagtgggg 360  
gatga 365

<210> 190

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (801)

<223> n equals a,t,g, or c

<400> 190

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gcataaataa tggtgccatt ataaactctt atccttccta tctcaacagg aaatgagcaa 120
ttattgcttc atgcttcaat gcaactgttt aaaatactgt ttaatttggt aaagggtgtga 180
actgtttaat ttatctcaca cgttttttta aacaaatact gattggacat gcgctgcacg 240
ccaggccttg ggcttggtac ctcagggttc tcacagggga ggctggaagt ggaaacaagc 300
acatgtgtaa ctgttggtga gacagtctaa ttggtagaaa atcagcgaac aaagaagcag 360
acaaattaga aaatgaacgt aaggtgatgt gctaaaaaga gggtagccat tatgtcagtg 420
tccttcagag aaggtagcac tccctgagac cggaatggca gaaagaagtc catcctgcct 480
agcccagctt ggacttggtg agaagcaggc tgataaaaaga accaaatatt gtacattttg 540
aagaagttgc ccgctgactt gagagagagg tggtgcgttt cagggtgctga atgtccttat 600
aaaaagttga atatttcgag catctctatc aatacatttg aatgctgaga gcttttcctt 660
ccagaagctc atgtcatttt caacacacac ttctatttac ctttatgtag tttctaaaaa 720
ttgaaaacca gaattggagg ttttttttaa aaaaaaaaaa aaaaaagccg aggkgggnaa 780
agtamaaatg ngcctkwgcc ntttcctttc cccgtcc 817
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<210> 191

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 191

```
aattagaaag tccaaagtcg acccaaattg atattatggg cagaagtatg gtagagcaat 60
ccaaacaatt gggattatga atgggaagggt tgtaaaccct atattatttg cgtgtacgaa 120
ggaagaatcc tgtgacaagc acttactcca aaatgagtct acagttatac caagtggata 180
gtagaactta tctactggat ttccgtagta ttgatgatga aattacagaa gccaaatcag 240
ggactgctac tccacagaga tcgggatcag ttagcaacta tcgatcttgc caaaggagtg 300
attcagatgc tgaggctcaa ggaaaatcct cagaagtttc tcttacctca tctgtgacct 360
cacttgactc ttctcctggt gacctaacct caagacctgg aagtcacaca atagaatttt 420
```

ttgagatgtg tgcaaatcta attaaaattc ttgcacaata aacagaaaac tttgcttatt 480  
tcttttgcag caataagcat gcataataag tcacagccca atgcttccca ttgtaatcca 540  
agttatacct aatttttaac cgggggttng ggntttngga ttgcaatttg 590

<210> 192  
<211> 308  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<400> 192  
ggcacgagaa ataaccagct gacagcatga cgacaggata aaatccacac ataccattac 60  
taaccttaaa tgaaaatggg ctaaatgctc ccattgaaag acacggggca agctggataa 120  
agaaccaaga cccactggag tatgctgtct tcaagaaacc catctcacat gcggtggcat 180  
acataggctc aaaataaagg aatggagaaa aatatttcaa gcaaatggaa aacagaaaaa 240  
agcaggtggt gcactcctac tttctgacaa aacagrctwt gcggnttaaa ggkkaaaaaa 300  
gnggaagg 308

<210> 193  
<211> 343  
<212> DNA  
<213> Homo sapiens

<400> 193  
aatteggcac gaggcctgga gaacctatgg tgattttcct gggcctgctc attgcccacc 60  
attgaaccaa tcagcacaca tgtcctctct tctgagccca taaaaaccct ggactcagcc 120  
agactcacac agacatcagg actaccagct gcgggaagga gctagccatc tcaggtctcc 180  
ttgaatcatc cagatgacct gcctgtggaa aggagctacc catcacaggt ctacttcctg 240  
atgagaactg gacattcttg ggatgacttg cctgcagaaa ggagcgacat attttgggtc 300  
tyctgagagc tgttctgttg ctcaatgaag ttccttcatg cag 343

<210> 194  
<211> 690  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (59)  
<223> n equals a,t,g, or c

<400> 194

```
aattcggcac gagaggatgat atacatgata cattctcaag agttgcttga ccgaaagtna 60
caaggacccc aacccctttg tcctctctac ccacagatgg ccctgggaat caattcctca 120
ggaattgccc tcaagaactc tgcttcttgc tttgcagagt gccatgggtca tgtcattctg 180
aggtcacata acacataaaa ttagtttcta tgagtgtata ccatttaaag aatttttttt 240
tcagtaaaag ggaatattac aatggttgag gagagataag ttatagggag ctggatttca 300
aaacgtgggc caagattcaa aaatcctatt gatagtggcc attttaatca ttgccatcgt 360
gtgcttggtt catccagtgt tatgcacttt ccacagttgg acatgggtgt agtatagcca 420
gacgggtttc attattattt ctctttgctt tctcaatgtt aatttattgc atggtttatt 480
ctttttcttt acagctgaaa ttgctttaaa tgatgggttaa aattacaaat taaattgtta 540
atttttatca atgtgattgt aattaaaaat attttgattt aaataacaaa aataatacca 600
gattttaagc cgtggaaaat gttcttgatc atttgcagtt aaggacttta aataaatcaa 660
atgttaacaa aaaaaaaaaa aaaagtcgac 690
```

<210> 195

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<400> 195

```
tggaatctgg ctagaaagca gtaataaaca gaaatctgta tatgtttgga aaaagtaa 60
ctcaatggaa atcagaaaat attttgaact gaaatttggt gatgaaaata ctatatatgg 120
aaacttggtg gatataattat agctaaagct gtgttagagg aaatttagag ccttacataa 180
atacatatat tataaaaggg aaaatatata aagttaatgg anctaaggca tccatct 237
```

<210> 196

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<400> 196

```
cccagagagta gacacatctt agtatgtact cagctttggg caaaanatag atggcggtcac 60
ctttcttcgc atgctgagct ccatagtaga ttgaggactt ggggttggaag cagtaaggta 120
attgccaaag cccattatc aggtgggtac acatagagct tttgggagga acagatgcca 180
taagttatca gtttagtctt accttctctt tagagggaaa agaagttgga gaaagcgtct 240
gcagctaaca aaaggtactg nccttg 267
```

<210> 197  
<211> 443  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<400> 197  
attgccaatg ataaaatttg aacttttcaag caaaaatgca aatttttgga aatgtgttat 60  
ttctgccact gagaacataa cagcatacca acacttttag actttttact ttatatattgt 120  
ataatgaatg catcaacatt tggatgatct gtattacagg tgaaccaaca ttttccagta 180  
ttagtggtgg ggaatgaccg tgtcwgaagg cttgaccagg atggggatag ctcaaggagg 240  
caggatggct cattgcttat gtcttcttca ggaacacaat gaagtagggt gagtttccag 300  
gatttggccc ctgcattggg gatggttgga ggaaaggcca aaaacctagg ttcttycags 360  
ccatgggctt taaaaaacgt ggtacttttt aaggaacagg gttcanggca ggggtgtttt 420  
tggggctagg gttaaggaaa atg  
443

<210> 198  
<211> 208  
<212> DNA  
<213> Homo sapiens

<400> 198  
gaaaatgtgc ctttttcagt tgtcacagmt ggggaatgtt actggcatcc ggtgggtaaa 60  
ggctagggat gctgctagac attctacggt gcacaggaca acccccacaa caaagaatta 120  
tctagcccaa aatgtcaaca atgctgaggt tgagaagycc taggaaacta aaacagtgtg 180  
ggggtttgta atttattgga aaccatgt  
208

<210> 199  
<211> 258  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<400> 199  
attggttttg gccatgacac tgatttcctg gaggcaaggt gctgcttcya ttcaggaatg 60  
ggggtgcatg actgccctga gcagccaagg agccaattct ttaggaggct gagtgccatt 120  
tcagctcaag ccttcacggg gcagggccaa aagcaacttn gaggggtggg tggagcatct 180  
tccactgcag cttggcccca agaaataggw ttagcagca gytcagcttg tgggatggtg 240  
cgcaacaatt tggggggg  
258

<210> 200  
<211> 893  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (870)

<223> n equals a,t,g, or c

<400> 200

```
aggggtagtt tccacaatct aatccgggtg ccatcagagt agagggagta gagaatggat 60
gttgggtagg ccatcaataa ggtccattct gggcagtatc tcaactgccg ttcaacaatc 120
gcaagaggaa ggtggagcag gtttcttcat cttacagttg agaaaacaga gactcagaag 180
ggcttcttag ttcatgtttc ccttagcgcc tcagtattt tttcatggtg gcttaggcca 240
aaagaaatat ctaaccattc aatttataaa taattagggtc cccaacgaat taaatattat 300
gtcctaccaa cttattagct gcttgaaaaa tataatacac ataaataaaa aaatatattt 360
ttcatttcta tttcattgkt aatcacaaact acttactaag gagatgtatg cacctattgg 420
acactgtgca acttctcacc tggaatgaga ttggacactg ctgccctcat tttctgctcc 480
atgttggtgt ccatatagta cttgattttt tatcagatgg cctggaaaac ccagtctcac 540
aaaaatatga aattatcaga aggattatag tgcaactctta tggtgaaaga atgaactacc 600
tcactagtag ttcacgtgat gtctgacaga tggtgagttt cattgtgttt gtgtgttcaa 660
atTTTTaaat attctgagat actcttgtga ggctactcta atgccctggg tgccttggcc 720
agtttttagaa ataccagttg aaaatatattg ctcaggaata tgcaactagg aaggggcaga 780
atcagaattt aagctttcat attctagcct tcagtcttgt tcttcaacca tttttaggaa 840
ctttcccata aggttatgtt ttccmgcccn rggsatgggg ggtcattggg gcc 893
```

<210> 201

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 201

```
aaactcactg gctgaaggag gaaatttttag aaggaagcta ctaaaagatc taatttgaaa 60
aactacaaaa gcattaacta aaaaagttta tttycctttt gtctgggcag tagtgaaaat 120
aactactcac aacattcact atgtttgcaa ggaattaaca caaataaaag atgccttttt 180
acttaaacac caagacagaa aacttgccca atactgagaa gcaacttgca ttagagaggg 240
aactgttaaa tgttttcaac ccagttcatc tgggtggatgt ttttgcaggt tactctgaga 300
atTTTtgctta tgaaaaatca ttatttttag tgtagttcac aataatgtat tgaacatact 360
tctaatacaa ggtgctatgt ccttgtgtat ggtactaaat gtgtcctgtg taccttttgc 420
acaactgaga atcctgcagc ttgggtttta tgagtggggg catggaataa ttatgggggn 480
atgtaaaaaa aanaaaagag ggg 503
```

<210> 202

<211> 438  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<400> 202  
catgtgatca tttatgtgta tacagagtaa ttataaaatg tttgctgtgt acaaaaactat 60  
tttattagtg gatttttaaat acattaaatg ggtatatata gtatatatga tctaggagta 120  
tatataggga actctaacia atttataata tttatttttt aaaagaatga ccaaaccatgg 180  
caaaatatta ctatgagtta gatctggaca gtggatgcaa gggctcttcat tatgtttattg 240  
tctgattttg tgttgaactt atttcacaat gcagaggaaa aaatagtcctt ggctcatcct 300  
tagatatcac tgttcataga gccagtcacc aggacgatcc cacnttttat ggtggggccag 360  
gcattggggag tccagagccc atcacccaac naccaagtga cgggtgggga cnctgggtgag 420  
cctgnaaagg gggccatc 438

<210> 203  
<211> 876  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (778)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (804)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (835)

<223> n equals a,t,g, or c

<400> 203

cggcgatata	tactaaattc	gcgcgtgact	tcattgagtag	tagtgaatac	aatcttcctg	60
cttctaagct	tgtgtctact	agaatgtctt	ccccctaaaa	gatataattg	aatgtttccc	120
atgtttcttc	tagtacttta	atgcgtttca	ttttcataty	gaaatcattg	atctacttct	180
agtttykgat	acaamatgtg	agccaggaaa	cccagttttt	aaatttcaaa	tagctgtcca	240
gggtgtccctg	cacctcttat	gcatgagccc	tcgctttgtg	ccaatgtgga	gtgcccgcct	300
gctcacacgt	gcccattgtg	agtgtcccgc	tgctcatgtg	cccattgtgga	gtgcccgcct	360
gctcacacat	gycgatgcgg	agtgtcccrcc	tgctcacaca	tgcccattgtg	gagtgtcccgc	420
ctgtctcacac	gtgtcccattg	ggagtgtccc	cctgtctaca	cacgtgtcca	tgtggagtgc	480
ccacctgtctc	atgtgtcccatt	gtggagtgtcc	cacctgtctca	catgtgtccga	tgtggagtgc	540
crcctgtctca	cacacgtgtcc	catgtgtggagt	gcccgcctgc	tcacrygtgc	cgatgtcggag	600
tgcccgcctg	ctcacacgtg	ccgatgtcgg	gtgtcccgcct	gctcacacgt	gccgatgtcgg	660
agtgtcccgc	tgctcacacg	tgcccattgtc	gagtgtcccgc	ctgtctcacac	gtgtccgacgc	720
ggagtgtccc	cctgtctaca	cgtgtccgacg	cggagtgtccc	gcctgtctcac	acgtgtccnac	780
gcggantgtcc	cgctgtctca	cacntgtccga	cgcggantgtc	ccgcctgtctc	acacntgtccc	840
atgtggagtgt	ccgcctgtctc	acgtgtccga	tgtgga			876

<210> 204

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 204

```
tgtnytccmt gtgcnaaac cygcygcaga ctggggcccy tctcagttaa ttgggtttca 60
caagcaataa tttctccaca acaaaaacca caacttgaag tgagttgaaa agagatcaat 120
agtggaaaca gtcgcctcag tactttttct ttctggattt catctctaga aatttgaagt 180
gtttgagaca gagtccaccc tttgtgcaag gcgagaacca atgaatggac tccttgtgtg 240
aattattgca tcttcttcca aagcaggttc atcaagactt tcacagagat tcatttttgt 300
tgagaagtaa gggttaatag gaggatagaa tttggatcca aatctagtga taaaagtgtc 360
caagcaatca aaaagtaaga tatttttaggg acataccaac atcttccctt tctgctaatt 420
tcatgctcca aagatatrgc aaaaaaaaaa atcataaaaa gtgcttttgc cctacttgtg 480
ttctagtttt cccatggcag aattttgtaa ttacatccag aatatagtgt atattttggt 540
cctcaaactt tattacattg gatggatatt gttgractgg ggcactgggt cctatatcca 600
aggctctttc ctatcaacgt gtctgtccac gatttgttgt gtttaaagct tcattttgaa 660
aatcactgt cccctgtgg gtagtgactg tattgttttg ttcattgtcta tgtgggacac 720
attgcatcac atggcaaacc aactctctgt ggatgtgaga taagtactta taaaaccagc 780
ttgaaaacat cgtcttatgt attatgtcat cctgcatcat aatgcaatta tgtgtatcat 840
aacatgctca tttaaaaaaaa gagaaaccag caaattcatg tttgtccata gaagaatgta 900
ctcagaactt tgtgttgtga aacgatgaga acagaccacc ttttaagatac ccacctgcca 960
cttaaaatga cttagtata attagtagta gtctagacgt tgttcttgggt gtgtgggggt 1020
caattctaac gtcattgttct tttgaataaa tctctcagtc atatttgaaa aaaaaataca 1080
tggaataaaa gaaaaatatc atctttggcc aaatcaagca ggcattcttt ttcttttctt 1140
tgacgtttag ctcatatac gtggtgattg gatcacgaga tctgtccgtg tgaaaataca 1200
gaaacatcct ttagtttaca aaacagttat tctaggcttg aagcctctgg aacagcaaat 1260
tgaatagatg ggcgtcatct gatttgcttt atggatgtaa ttttataaaa cactcttggg 1320
tctctgaccc caggaggtta agagtgccca gaggagggtc tacacattaa aggataaagc 1380
ccccagtgga tgctggcagc aaatgtgttg agttcttaaa tcttccattt ggktttctgk 1440
ttcagggttt taattgcaat ggattttntt tccccggtt tttcttaagg gccncatttt 1500
ccca
```

1504

<210> 205

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<400> 205

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agtcttgttc ctaatgcact tgtccacatc gtatgtcatt acaagtnctt ccccttcttt 60
aaccagaggg catagaattg gggcttagtg tgcctaaac aagctaaaag attccacctg 120
tagaatcata aaatgagagt ctacacagc ttcattgtac tttttgtctc ttcagcaagg 180
aacggttgct gggattgtca gtgaccaggc atgtctggat agcttcacac atacacataa 240
tgcccgggtc acctcagccc acacatgttc tagaagtagc cacttgccaa gtgtcagtgt 300
tcagtctaaa cagcaaatgg gttaaccaca tgaacagcac tggcccatgt gagaatgggt 360
tgaaggcctc ctttgtacca ttttccattt ctctaactca catgtgtagt ctcagcactg 420
cagaggacag atttgtttgt gccctctgag actgggtgggt tgggtgggtg gttagttttg 480
```

ttttatgaat cctaaaattt gtcttggsc t gttaaaaaaa aaatt

525

&lt;210&gt; 206

&lt;211&gt; 2494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2471)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2485)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 206

caaagaaaca	ttggaaacaa	tttctaataga	agaacaaaca	cctcttctta	aaaagattaa	60
cccaaccgaa	tctacttcca	aagcagaaga	aaatgaaaaa	gttgattcaa	aagtgaagc	120
tttcaagaaa	ccattgagtg	tatttaaagg	ccccttacta	cacatcagcc	cagcagaaga	180
actgtacttt	ggaagtacag	aatccggaga	gaagaaaacc	ttaatagtgt	tgacaaatgt	240
aactaaaaat	atagtggcat	ttaaggtgag	aacaacagct	ccagaaaaat	acagagtcaa	300
gccaagcaat	agcagctgtg	acccgggtgc	atcagtggat	atagttgtgt	ctcccatgg	360
gggtttaaca	gtctctgccc	aagaccgttt	tctgataatg	gctgcagaaa	tggaacagtc	420
atctggcaca	ggcccagcag	aattaactca	gttttggaaa	gaagttccca	gaaacaaagt	480
gatggaacat	aggttaagat	gccatactgt	tgaaagcagt	aaaccaaaaca	ctcttacggt	540
aaaagacaat	gctttcaata	tgtcagataa	aaccagtga	gatatatgtc	tacaactcag	600
tcgtttacta	gaaagcaata	ggaagcttga	agaccaagtt	cagcgttgta	tctggttcca	660
gcagctgctg	ctttccttaa	caatgctctt	gcttgctttt	gtcacctctt	tcttctattw	720
attgtacagt	taaagaagtg	gtgccgggta	ggaaccacgg	ttccttcgtc	cattagttgg	780
aaaagtaaca	gacctaaaac	tctaccaagc	tactaaaamc	attgcacatc	tgtgcttcct	840
aaaaggaaat	atgcagcacg	tggaggggaa	cacatacatg	tcttgaaaaat	aaactgctag	900
aataaagaaa	tgctggagaa	attgattata	agagactata	gctatttagt	aaagtaagta	960
aaggcatatc	cattgtgtaa	attaatagtt	taaatataat	ttattttttc	cttttgatct	1020
gaatactttt	aaagcttaag	ttttatcgtg	taaatacatt	agctaaactg	aaaagtataa	1080
gtaacatgct	ttgttgacgc	caaaaaatgt	aatctgcttt	tttatgacag	aattattata	1140
gctgagctga	cttactagct	tttctatact	atgtatatag	aagaacatgt	atattgagaa	1200
agaaaacata	cttatataga	ggaatttatg	taaccatgac	tttgtaattt	tgagaattcc	1260
tcccagtgat	ggtcagtatt	cttttggaat	gtaaaccgat	ttaatgccaa	accaccttaa	1320
cctttgtttc	tcagtgttcc	ttaacagcct	gccttttatt	aatctcaggc	ttttttatga	1380
acactctcat	ttcagtagaa	tttggaaaac	taagcgtggg	tggaatttct	ttgaattctg	1440
ttagtaatgc	ccaaaagaaa	agtctcaagc	agtcccccta	tccagtcatt	tttatggagt	1500
ttcatgttgt	ccactatagc	tggaacactga	accttttgcc	taatttatta	taaaggcctg	1560
acctcttatt	gtcccatctt	cacccccatt	ccagagcaga	ggagtctctg	tggaacctga	1620
attgcactgt	ctccctcctc	atctctaaat	gaaaggtatt	agatataaat	ttttttgaaa	1680
ggtaggttgt	ttgagatgct	aagcaggata	ataaatttag	attttaaaat	gttccctgta	1740
aaagtcagcc	catgacaagg	aaattttaca	aatactagag	tatctagaag	ggtgaaaaca	1800
aaaaaaaaawa	aaaaraaaca	cagacgcccc	ggtgtcagct	ctccgtttta	agaatgaaaa	1860
atgtaactca	tgatgatctg	tgaaaccttc	aaactaggac	caattgactt	acttgatatt	1920
ctgcctttga	tatggtagta	cccacccggt	attcctaaaa	tcctaaaaag	atacaccttg	1980

cagtagcaga ggcaatgaca tgagtttgtt ttctcattaa tatgaccagt ttgggtctat 2040  
gttgggtcac atgtacatct actttatatg aaagaaaaaa cagttgtctg cctgtaaaat 2100  
gttgagtttc gattgagcca tgtttggaga ttttattact attctgaagg gtagtgttgt 2160  
tggttttcat cttcaagaag ttgattccaa aactgagtta tgaagaatga tataacagtt 2220  
ccttcaaaat tggcctagga aataaaacct taaaaggaca ctgggtgtgct actttgtctt 2280  
aatttgggct tttctgtttc agtttgccac ctccagctgt gaaatggact gcagtccacc 2340  
ctaagtactg tgcacagtat ctccctgtgt gtgtgcacag tggcttcccc ttacatggta 2400  
gatttttggc cttaatataa tctaattcca aagtagttgt gtatgttttc tggtccttgg 2460  
caataaaatg naggaataat ttagnccaag attg 2494

<210> 207

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (864)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (868)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<400> 207

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ccatcttacc tccagataag gtgtttttagg tactctgttg ccagtgttag tgcaacttag 180  
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cataaagtag gtgatttttg agcagagcga agtctagaaa tttgccttaa attatttgtg 300  
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cattgaacgt tagattgttc taagaccaga attagattaa aaatgcataa catattaagt 420  
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gttttaattg atgcttaatc tggtaaaatg atgtactgta ttttaaagta ttctaattgt 540  
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attagatttt tattgacatt gttttccccc ttaactcatg taattagtca tagcaaccaa 660  
gagtcaagag agtgattacc agccaattaa gaaaaatgtg accaagcaga ttgcagagta 720  
caataaaacc atcgtggatg ctttacatag catcagcgga aactgagttt aagtccactg 780  
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aaaaaaaaaa agccgaggkg ggcnnngtnc aagggccntg 880

<210> 208  
<211> 640  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<400> 208  
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gaggtcttcc aggagatgct gtccatgctg ggagatcaga gcaacagcta caacaatgaa 180  
gaattccctg atctaactat gtttcccccc ttttcagaat agaactattg gggtgaggat 240  
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<210> 209  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (85)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<400> 209  
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tgaggaaagt gaggtcaca gaagttaatt ggcccagggt cccacaacta gtcagtgcag 180  
aggtgggggra acataaccag atttgttcgg catgkaactt gtgccaaatt tcctccaaag 240  
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act 303

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<212> DNA  
<213> Homo sapiens

<400> 210  
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tgctcagata ccctttttta tttgtataga tattctgagt tccttttttt ttctacatgt 240  
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ggtgagatgg aaacaaggat gtgtaaaaaat gagacgacca cctctcggat taaaaaaaaa 360  
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<210> 211  
<211> 3133  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3069)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3085)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3114)  
<223> n equals a,t,g, or c

<400> 211  
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ttcaccagcc acc 3133



<210> 212  
<211> 680  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (613)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (660)  
<223> n equals a,t,g, or c

<400> 212  
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aatttaaaaa ttaattattt tacataatta aagaagttaa aaactattaa cattaaataa 240  
tttcacaatt tcaacatgtc aaacctatga agggagatag gaaacaatga gaaacttact 300  
tttgctcctt tatacagrat tattaactat attttactaa ctaaaaaact ctagtattct 360  
ttacctaaag tcaattggct ggtaagaggg agagatgcaa aattctccag ctctgaactt 420  
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<210> 213  
<211> 563  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<400> 213  
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caagcaaatt aaaatagaan aaaatgcaac aggtttcagt tatgaatcac tttttcgcga 480  
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tactcctcca gcttggtata act 563

&lt;210&gt; 214

&lt;211&gt; 2636

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 214

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<210> 215  
<211> 1822  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1816)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1821)  
<223> n equals a,t,g, or c

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<210> 216  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

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<210> 217

<211> 1529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 217

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ccaggagggc ctcatctgca cctgggmccg gccgggcaag gcgttcacag acgaggagac 180  
cgaggcccag acaggggaag gaagttggcc caggtcaccc agcaagtcag tggtagaggg 240  
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atcaacgtat taacaagact aaccatgatg gatggactgc tccagtcccc ccacctgcac 420  
aaaatttggg ggccccccag actggcccgg acacgggnga tgtaatagcc cttgtggcct 480  
cagccttgct ccccaccac tgccaagtac aatgacctct tcctctgaaa catcagtgtt 540  
accctcatcc ctgtccccag catgtgactg gtcactcctg gggagasact ccccgcccct 600  
gccacaagag cccaggtct gcagtgtgcc cctcagttga gtgggcaggg ccgggggtgg 660  
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aagttccctg ttttctcagc gggctctgtcc ctttcggagg agatgatgta gaggacctgt 840  
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ttgggggtctc gtttgcccag ggagggttg gctccaccac tttcctcccc cagcctttgg 1440  
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<210> 218

<211> 1100  
<212> DNA  
<213> Homo sapiens

<400> 218

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ttgttaaagg ggcagtagta ctttgtggga gccagttcac ctcccttcct aaaattcagt 180
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gttcataccc actcagagtt ataatggcaa acaaacagaa agcattagta caagcccctc 300
ccaacaccct taatttgaat ctgaacatgt taaaatttga gaataaagag acatttttca 360
tctctttgtc tggtttgtcc cttgtgctta tgggactcct aatggcattt cagtctgttg 420
ctgaggccat tatattttta tataaatgta gaaaaaagag agaaatctta gtaaagagta 480
tttttttagta ttagcttgat tattgactct tctattttaa tctgmttctg taaattatgc 540
tgaaagtttg ccttgagaac tctatttttt tattagagtt atatttaaag cttttcatgg 600
gaaaagttaa tgtgaatact gaggaatttt ggtccctcag tgacctgtgt tgktaattca 660
ttaatgcatt ctgagttcac agagcaaatt aggagaatca tttccaacca ttatttactg 720
cagtatgggg agtaaattta taccaattcc tctaactgta ctgtaacaca gcctgtaaag 780
ttagccatat aaatgcaagg gtatatcata tatacaaatc aggaatcagg tccgttcacc 840
gaacttcaaa ttgatgttta ctaatatatt tgtgacagag tataaagacc ctatagtggg 900
taaattagrt actattagca tattattaat ttaatgtctt tatcattgga tcttttgcac 960
gctttaatct ggtaaacata tttaaatttg ctttttttct ctttacctga aggctctgtg 1020
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aaaaaaaaa aaaaaaactc 1100
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<210> 219  
<211> 1792  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (476)  
<223> n equals a,t,g, or c

<400> 219

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ggcggcgsgg accgcmtggg cgggaccggc gggccgcgcc tggatgacgg ctccctacca 180
gctcacctct cgccgcacat gtttggagga ttttaagtgc ctgtatgctc aaaatttgta 240
tcctcagatg aaatggattt gcatcttgta atgtgtttaa caaagccacg aataacctat 300
aatgaggatg tactgagtaa agatgctggg gaatgtgcaa tatgccttga agaattgcag 360
caggagata ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat 420
gaatggtttg aagtaaatag atcttgccct gagcaccctt cagattaagc gtcannttcc 480
tgttttatag gttttcttgt cttgacaaga tgcttgaaaa accaagagga yatgaaaatc 540
tgtctctgga gaaacaaaga cgcaggcata ctacagccaga aatctgagtt ttgtgagact 600
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tggtaataca gagatggaca atcgtactgg ggtaaaaaaa ccctgctgaa gagaggacag 660  
tgaccacaga actcagtgtg ccaaacatgc atacaaagga cacacaggga ttttgaaaat 720  
gctgcacatc ccttaatagt catctacata ggtaatactg ataaacattt tgtattcaga 780  
cgccaaagtt aactgattta aaagttgatt tactttttat taagttctcc agagctgcac 840  
aactagttat gttttgattt gttttgtttt ttaatttggg gtctctttgt tttccccaac 900  
ataatgttca taatgtttct gcattcatct gttcttaaat tgaaaaacat ataatttact 960  
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tgaatgtaga ccatgatctc aagttcttcc attttctccc ccacgagtgg aaaatagact 1080  
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aatattcccm cataataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1792

&lt;210&gt; 220

&lt;211&gt; 1310

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

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cgggaaaccc agccccgtca ccgggctccg agcggctcgc aggcgacgac acgkcctcag 120  
ccccggcagc gccyagcgkc ggctgcggaa agcggaggga gtccgacgag ggcgcgggag 180  
gggagcgtgc gtccgttcgc acaggcagcg ggaggagggg cggcgcgaac catggccggg 240  
gacagcgagc agaccctgca gaaccaccag cagcccaacg gcggcgagcc cttccttata 300  
ggcgtcacgg gggaacagct agcggcaagt cttccgtgtg tgctaagatc gtgcagctcc 360  
tggggcagaa tgaggtggac tatcgccaga agcaggtggt catcctgagc caggatagct 420  
tctaccgtgt ccttacctcg gacgagaagg ccaaagccct gaaggscag ttcaactttg 480  
accaccgga tgcccttgac aatgarstca ttctcaaaac actcaaagaa atcactgaag 540  
ggaaaacagt ccagatcccc gtgtatgact ttgtctccca ttcccggaag gaggagacag 600  
ttactgtcta tcccgcagac gtggtgctct ttgaagggat cctggccttc tactcccagg 660  
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agtacattac gttcgtcaag cctgcctttg aggaattctg cttgccaaca aagaagtatg 840  
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&lt;210&gt; 221



<211> 1369  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1347)  
<223> n equals a,t,g, or c

<400> 221  
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tgagatagtg aargtgaaag caattggaag acaaagggtc aaagtccttg agctaagaac 180  
acagtcagat ggaatccagc aagctaaagt gcaaattctt cccgaatgtg tgttgccctc 240  
aaccatgtct gcagttcaat tagaatccct caataagtgc cagatatttc cttcaaaacc 300  
tgtctcaaga gaagaccaat gttcatataa atgggtggcag aaataaccaga agagaaagtt 360  
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cttaatggac agaatacaaga aacagctacg tgaatgggat gaaaatctaa aagatgattc 480  
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tgtattgaga attcagctcc ttaaaattgg cagtgcctatc cagcgacttc gctgtgaatt 600  
agacattatg aataaatgta cttccctttg ctgtaaacaa tgtcaagaaa cagaaataac 660  
aaccaaaaat gaaatattca gtttatcctt atgtgggccg atggcagctt atgtgaatcc 720  
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ccggccttct acagaacaca gctggtttcc tgggtatgcc tggactgttg cccagtgtaa 840  
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<210> 222  
<211> 792  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (585)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 222

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tgcttaaatgc tgtcttaact agtgtaggaa aacggctcaa cccaccgctg ccgaaatgaa 180
gtataagaat cttatggcaa gggccttata tgacaatgtc ccagagtgtg ccgaggaact 240
ggcctttcgc aaggagagaca tcctgaccgt catagagcag aacacagggg gactggaagg 300
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caaaggaggg gtattattca ggggtgcccc acccanttaa ggttgcaagg aggaaaggca 660
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aaccagctt gt 792
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<210> 223

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (885)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 223

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gccaggaaac gtgtgggcct ctctgctgcg gtctccgagg gccgaccgct gccggcggcg 180
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gttggaaggc gaagaacaaa gactccacat acgttcccac acagtagata catgagtcag 600
atgtctgtcc cagagcaggc agaattagag aaactgaaac agcggataaa cttcagtgat 660
ttagatcaga gaagcattgg aagtgattcc caaggtagag caacagctgc taacaacaaa 720
cgtcagctta gtgaaaaccg aaagcccttc aactttttgc ctatgcagat taataactaac 780
aaggagcaaa ggtgcatttt acaagtcccc caaacagagg aaacggttgg gttcagcaca 840
gtgttaaagg nttgttttgc tttctggttt ttaagtaatt gaccnctttg gccanacttt 900
tccgggtgtt ntgaaggagg t 921
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<210> 224

<211> 1979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1949)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1953)

<223> n equals a,t,g, or c

<400> 224

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ggcagaggca gagcccggtg ccgagaccaa gcgacagacc ggcggggctg ggcctcgcaa 120
agccggctcg gcgagctctc ccgacaccgc agccggggag gaaaagcagc gactcctcgc 180
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gccggaccag acaggccacc atgaccgaga attccacgtc cgcctctgcg gccaaagccca 360
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ctgccatcca ggccgagaag aaccgcgctg gctcctcgcg ccagtccatt cagaagtata 480
tcaagagcca ctacaagggtg ggtgagaacg ctgactcgca gatcaagttg tccatcaagc 540
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taaacaagtg ttacttgtgc cggaagaaatt ttgctgtctt tgtaatttta aaactttaaa 1920  
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<210> 225

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<400> 225

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attgtggata ttggccccga cagcttaaca attgaacct tgaatcagaa aggcaagaca 180  
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tatagtaaag acagaattta tacatatgtc gccaacattc tgwtgacagt gaatccatac 360  
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acaagaccac ctccagggtct ttgcaattgc tgataagcct ttcgggacct ggaaggtgcc 480  
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a 541

<210> 226  
<211> 277  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<400> 226  
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gaagggcctt agtangcctt tctaataagt cttccaaagg atgtgttcga acaactgccca 180  
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gaackacygt cctccaagct tgtgagaagg ttggcat 277

<210> 227  
<211> 2069  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2026)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2042)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2050)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2061)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2062)

<223> n equals a,t,g, or c

<400> 227

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aactttcgct cacacaaaagc cgggaaaatt ttattagtcc tttttttaaa aaaagttaat 180
ataaaattat agcaaaaaaa aaaaggaacc tgaacttttag taacacagct ggaacaatcc 240
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ggttgttcgc tagtctcacg gtgatggaag ctgcacattt tttcgaaggg accgagaagc 360
tgctggaggt ttggttctcc cggcagcagc ccgacgcaa ccaaggatct ggggatcttc 420
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gtgtgacaaa aactgacaag caggaagctt atgtactcag tgagagtagc atgtttgtct 540
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<210> 228

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 228

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acataggacg acgtcagaca gactcacggt gatggagctc ccctctcccg agtctgagga 180
agtcacacgag cccagattag gggagctctt gggaaatcca gaaggtcaga gcctggggag 240
ttccccctct caggacaggg gctgcaacag gtgacagtga cccattngaa gatccagaca 300
ggagagacag ctcaagtgtg caccaagtca ggaagaaacc atattctgaa atcagacttc 360
ttctggcttc anagagagct ccttagaagg ggaagccat tccttgcat atcctgtngg 420
gaaaccttca cgtttaattc ggacctaaat aaggcatcgg antttcgcac c 471
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<210> 229

<211> 1640

<212> DNA

<213> Homo sapiens

<400> 229

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aggatgatca tagctacctc acggttacat tgcaaagcct tactctaaaa gctcccagcc 1260
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aaaaaaaaa aaaaaaaa 1640

<210> 230

<211> 1970

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1963)

<223> n equals a,t,g, or c

<400> 230

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acggatttat cccagacggt agaacaaaag gaagaatatt gatggatttt aaaccagagt 180  
ttttaaagag cttgagaata cggggaaatt aatttgttct cctacacaca tagatagggt 240  
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atatattgaa cattatTTTT gttgttctat tataaagtgt gtaagttacc agtttcaata 1920  
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<210> 231

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 231

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cttgctatac ctagagtcaa attcatggag acagaaagta gaaagggtgg taccagcggc 180  
tggaaggag agaattgtga gtttaattgg tatagaattt tagttttgta aggtgaaatg 240  
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<210> 232

<211> 2833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2828)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 232

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2833

&lt;210&gt; 233

&lt;211&gt; 692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 233

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acttaccact ccctactgaa taaagctaca gt 692
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&lt;210&gt; 234

&lt;211&gt; 1353

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (649)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1020)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

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ccccgagacc gactgagggg gcgacctgcg cagggcccg gtagtcatgg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctcagacctc ccctgctcgg ctgtctggcc 240
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<210> 235

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<400> 235

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gtccagctct ggggaagacc gagacgaaat cgagtcagct ggcgttggga gagggcttat 240  
ttccgcttcc gcttgcccaac tttcaggaat ttgattctga gagcagggtc gcggttccag 300  
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<210> 236

<211> 2271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 236

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gggggattgt gggagccaaa agtccctacg ttgatgacat gggagcaata ggtgatgagg 180  
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<210> 237

<211> 3050

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3024)

<223> n equals a,t,g, or c



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3031)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

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cagaatattt	cccctctgaa	aatctgaatt	atgccctcat	tctttttcaa	gaaatatctc	300
aaagagcaaa	tagaattaaa	catgacactt	gattgtctga	ttatttggca	tgtataaaat	360
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<210> 238

<211> 2802

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1800)

<223> n equals a,t,g, or c

<400> 238

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<210> 239

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 239

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<210> 240

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 240

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aagaagatcg agaagcggaa cctcaaattg cggcasggaa cctaaagttt cagggggcct 180  
caaatctgac cctatcgga actcaaaatg gagatgtatc tgaagaaaca atgggaagta 240  
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ttgaagamct ggcaaggatt tctctgaaaa aggagccatt ggtatgttgg cgttgatgat 1260  
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<210> 241

<211> 2438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<400> 241

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cctgaaactg ncacctcca accttcaagg cttttgaaga acaaagcttt attatgcaaa 120

cccatacacac agactaaagc cacctcttgc aaaccacata cccaaaacaa agaatgccag 180  
acagaagaca ctccaagtca gccagatta ttgkkgkgcc agttccgtac cagkgttkgt 240  
cccatacctc ttacctttat actcaatatg ctccagtcctc atttggaatt ccagktccaa 300  
tgcctgkccc tatgcttatt ccactcttcaa tggatagtga agataaagtc acagagagta 360  
ttgaagacat taaagaaaag cttcccacac atccatttga agctgatctc cttgaratgg 420  
cagaaatgat tgcagaagat gaagagaaga agactctatc tcagggagag tcccaaactt 480  
ctgaacacga actcttttcta gacaccaaga tatttgaaaa araccaagga agtacatata 540  
gtggtgatct tgaatcagag gcagtatcta ctccacatag ctgggaggaa gagctgaatc 600  
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<210> 242

<211> 139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 242

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gggttggar cagwcgggtg atggaagttg aacaggtgct ggagtcggcg cgcaaagcaa 120  
tagggactag ggatcgncg 139

<210> 243  
<211> 479  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<400> 243  
gctcgtgccg aattcggcac gaggcagttt ttgaaagttt gaaattaagt aaaaattaaa 60  
agtcacaaaa gattttgcat gtcaagattc tagccttttt cttctggtgt actgagaggc 120  
cagaggagcc catcctaggg actaagtatt gacagaattt gggtctgtgg caagaattac 180  
ctggtgtcct agcactaagg accagtaggt cagagccctt gacttagatt tcaggacaag 240  
aaacagaaaag attggaatag gattgraatg gagtctcccc gtgattttta aaaacactta 300  
statggggcc asgcgcrcrk tggctcaacg cctgtaatcc cagcactttg ggaggccaag 360  
atgggtggat catgaggtca ggagatcgag accgtccttg ctaacatggt gaaaccccg 420  
ctctactaaa aatataaaaa aattaacccg gccgtggtgg cngggcgccct gtagtccca 479

<210> 244  
<211> 584  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (582)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

<400> 244  
tgggatatct ccggagcatt trgataatgt gacagttgga atgcagtgat gtcgactcct 60  
tgcccaccgc catctccagc tgttgccaag acagagattg ctttaagtgg caaatcacct 120  
ttattagcag ctacttttgc ttactgggac aatattcttg gtcctagagt aaggcacatt 180  
tgggctccaa agacagaaca ggtacttctc agtgatggag aaataacttt tcttgccaac 240  
cacactctaa atggagaaat ccttcgaaat gcagagagtg gtgctataga tgtaaagt 300  
tttgtcttgt ctgaaaaggg agtgattatt gtttcattaa tctttgatgg aaactggaat 360  
ggggatcgca gcacatatgg actatcaatt atacttccac agacagaact tagtttctac 420  
ctcccacttc atagagtgtg tgttgataga ttaacacata taatccggaa aggaagaata 480  
tggatgcata aggaaagacm agaaatgtcc agaagattat cttagaaggc acagagagaa 540  
tggaagatca ggtcagagta ttattccaat gcttactgga gnng 584

<210> 245  
<211> 332  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (272)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

<400> 245  
ggcacagcgt tcacccgaca gtgttcacag ggcccatggt acagagcacg gagcagggtc 60  
ccccagggtg tgcgcttgcc agggccacat cttgagcctt cgctctgctc cttcgagagc 120  
cgctgctgcc ccaccccaat cccaaccag ccacccctc ctgcctccct gccatctgtc 180  
cctttcatcc tccctggcgt gccaaagcgc tgccatggca ccgcctgtta cctanccag 240  
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aactcagccc tgccactccc tgctctgaag ct 332

<210> 246  
<211> 1617  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<400> 246  
cccgagatcc ctttcccaga gtgctctgcg ccgwgaagaa gcggctcccg gggactkggg 60  
gcattttgtg ttggctggag ctggagtaac aagatggcgt cgtccgcgga gtgacagggg 120  
tccctctggg ccggagccgg cggcagtggg ggcagcggta tcgccgccct agctcaccgc 180  
gccccttttc cagcccgcga cgtcgccgcg caagnaggca gcggcgggcg ccgagaaaca 240  
agtggcccag cctggtaacc gccgagaagc ccttcacaaa ctgcggcctg gcaaaaagaa 300  
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aaaggcctcc gtgttccgtt tcctgccgcc ctectccgta gccttgccct gtgtaggagc 420  
cccgaggcct ccgtcctctt cccagagggtg tcggggcttg gccagcctcc atcttcgtct 480  
ctcaggatgg cgagtagcag cggctccaag gctgaattca ttgtcggagg gaaatataaa 540  
ctggtacgga agatcgggtc tggctccttc ggggacatct atttgccgat caacatcacc 600  
aacggcgagg aagtggcagt gaagctagaa tctcagaagg ccaggcatcc ccagttgctg 660  
tacgagagca agctctataa gattcttcaa ggtgggggtg gcacccccca catacgggtg 720



tatgggtcagg aaaaagacta caatgtacta gtcattggatc ttctgggacc tagcctcgaa 780  
gacctcttca atttctgttc aagaagggtc acaatgaaaa ctgtacttat gttagctgac 840  
cagatgatca gtagaattga atatgtgcat acaaagaatt ttatacacag agacattaaa 900  
ccagataact tcctaattggg tattggggcgt cactgtaata agttattcct tattgatttt 960  
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agtcgccgag atgacatgga atcattagga tatgttttga tgtattttta tagaaccagc 1140  
ctgccatggc aagggtctaaa ggctgcaaca aagaacaaa aatatgaaaa gattagtga 1200  
aagaagatgt ccacgcctgt tgaagtttta tgtaagggtt ttctgcaga atttgcgatg 1260  
tacttaaaact attgtcgtgg gctacgcttt gaggaagccc cagattacat gtatctgagg 1320  
cagctattcc gcattctttt caggaccctg aaccatcaat atgactacac atttgattgg 1380  
gacaatgtta aagcagaaaag cagcacagca ggcagcctct tccagtgggc agggtcagca 1440  
ggcccaaacc cccacaggca agcaaaactga cmaaaccaag agtaacatga aaggtagta 1500  
rccaagaacc aagtgcgtt acagggaaaa aattgaatmc aaaattgggt aattcatttc 1560  
taacagkgtt agatcaagga ggkgtttta aaatacataa aaatttggct ctgcgtt 1617

<210> 247

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<400> 247

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gagaacgcga gtcccaggat ccccggcacc casttctctt ccactgcatt cccccggcgc 120  
gtgtgggacc gaggtggaca tggatccgca gaggtcccc ctattggaag taaaggggaa 180  
catagaactg aagagacctc tgattaaggc cccttcccag ctgcctctct caggaagcag 240  
actcaagagg aggcctgacc agatggaaga tggcctggag cctgagaaga aacggacaag 300  
aggcctgggt gcaasgacca aaattaccac atccccacca agagttccat ccctcactac 360  
agtgccacag acacaaggcc agaccacagc tcaaaaagtt tccaagaaga caggaccccg 420  
gtgttccaca gctattgcca cagggttgaa gaaccagaag ccagttcctg ctgttcctgt 480  
ccagaagtct ggcacatcag gtgttcctcc catggcagga gggaagaaac ccagcaaacc 540  
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ctcggncc

1449

&lt;210&gt; 248

&lt;211&gt; 1484

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1477)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1478)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 248

ccacgcgtcc	gcggacgctg	gacggacgcg	tgggtcnggt	taggaggagc	taggctgcca	60
tcgggcccgt	gcagatacgg	ggttgctctt	ttgctcataa	gaggggcttc	gctggcagtc	120
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaanngg	gggg		1484

&lt;210&gt; 249

&lt;211&gt; 2422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2408)

<223> n equals a,t,g, or c

<400> 249

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ccttctttaa aacaaaaata cgtacaaggc ccacgcgtcc gcggacgcgt ggggagtcct 120
tctaattctt cttttctaca gacccatctg acctctccct tctcccccag gctgctcctt 180
gccaggccga gctagggtccc aattcttccct cagcctctgc tctccacccc tataatcttt 240
ttatcacctc ccctcctcac acctgstccg gcttacagtt tcttccgtg actagccctc 300
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tcccgcacatt aaataaaaact ccaaaaatta rawtcyggcc ctcaaaccctt acaacaggay 600
ttaattaacc tcrcttcaaa ggtgtacaat aatagaaaaa agttgcaatt ccttgccctc 660
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cagcrgccag gcgttccctc agaacctcct cccacaggag cttgctacac gtgccggaaa 780
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ccttaggcac tctctaatac gatrtcctag gtcctcccaa ttcttagacc ttttataact 2160
gtttttctcc ttctgttatt ccatttagtt tctcaattca tccaaaaccg tatccaggcc 2220
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atcaccaatc attctatayg acaaagtgtt cttctwacat cccacaata tcacccctta 2280  
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<210> 250  
<211> 574  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (38)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (77)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (558)  
<223> n equals a,t,g, or c

<400> 250  
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ccaactcgtt tccccaggat ttaaagacta taacgatgat aaaagtcagt ttcgcaccct 180  
gtcaaaggct tggcccgttg ccttttcctt cccggcaata ctcggttcaa ttaggtcttg 240  
tcccctcatt atctgtgagg actgaattcc acccccgtt ttcaacgcag gctctttgct 300  
cgggaaaagt caaaccatct ctcaaaggat caaagagctc agccatagac agagccgccg 360  
gaggaaagcg gagtcgctgc atcagatgaa aggggcccct cagcctcact cctcaccgca 420  
gctcctggga tcttaaagac agggtcagga ggatcaggag ggacaagagg gatggaggcg 480  
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<210> 251  
<211> 1044  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1010)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1011)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1012)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1013)  
<223> n equals a,t,g, or c

<400> 251  
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caccaaaata tactaaatct gttctgaaaa agggagataa aaccaacttt cccaaaaagg 420  
gagatgttgt tcaactgctgg tatacaggaa cactacaaga tgggactggt tttgatacta 480  
atattcaaac aagtgcaaag aagaagaaaa atgccaaagcc ttttaagtttt aaggtcggag 540  
taggcaaagt tatcagagga tgggatgaag ctctcttgac tatgagtaaa ggagaaaagg 600  
ctcgaactgga gattgaacca gaatgggctt acggaaagaa aggacagcct gatgccaaaa 660  
ttccacaaaa tgcaaaactc acttttgaag tggaattagt ggatattgat tgaaatagca 720  
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caactagtta gaacttgta ctattgtaaa ggaagagtca actggaaaat tcaaggagtt 840  
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aaaaaaaaaa aaaaaaaaaa aaaa 1044

<210> 252  
<211> 1029  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (835)  
<223> n equals a,t,g, or c

&lt;400&gt; 252

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atccgcgagc tcaagcagct caaccggcgt ctgcaggcag agaaccgtga gctgcgcgac 360  
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cggacggaag cggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggrrc gccgctcgcg 1020  
atctagaac 1029

&lt;210&gt; 253

&lt;211&gt; 475

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

ggcacagcca ggtgctcctg acggacttaa gtgccaaaaa ctgactccat gctaggaacc 60  
actgagttct caaccagtga gtttatgatt cctatttttaa aaataacctt taaagtctga 120  
ttataaaagt agtacatagt ctttgtggaa aattttattaa gtacagtaag tgcagaagaa 180  
gaaataaatc actcataatc ccagcagaca gaattaatca ctgtcatttt aggtgtattt 240  
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tggacatgga aaatgggcag taaattctgt acatgtgcct tcttgtattt ttgttgtatt 360  
tttawatcat gcyttttttgc aaaatacatt ataaattaaa catggaattt cactagtttt 420  
ctgtggtatt cattttccat gggctggaat aatgggtccg tccactatat ggggt 475

&lt;210&gt; 254

&lt;211&gt; 1724

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (440)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 254

ggcacagtac agcaagaggg caaggacaat tgcttaagtt gacctctggg tccggaatcg 60  
cgggcaaaga tggcggcggc cagggtgttg aggcctttgc tacgcgggcc gaggcctttca 120  
ttgcacaccg cggctaattg cgcgcgcacg gctacagaaa cgacctgcca agacgtcgcg 180  
gcgacccccg tcgcgcggta cccgccgatt gtggcctcca tgacagccga cagcaaagct 240  
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gagaagctgc gaatcctcac caagatgcag tttatgaagt acatgggttta cccgcagacc 360  
ttcgcgctga atgccgaccg ctggtaccag tacttcacca agaccgtgtt cctgtcgggt 420  
ctgccgcgcg ccccgagcgan cccgagcccc agccccgaacc cgaacctgaa cctgcgctgg 480  
acctcgcggc gctgcgtgcg gtcgcctgcg actgcctgct gcaggagcac ttctacctgc 540  
ggcgcarcgg cgcgtgcacc gttacgagga gagcgaggct atatctttgc ccttcctgga 600  
tcagctgggtg tcaaccctcg tgggcctcct cagccccacac aaccggccc .tggccgctgc 660  
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tcttatgtca acctgttatt agatctctta ctctgctcaa attcatcact gaaagattta 1560  
attttagtta ccttttggtg atttaaaaat aattgcattt gtatattgct aactgataag 1620  
acaaattgag ttattgagct attaaatgca cattttaata taaatgcaga aatcccaa 1680  
aaaatgctaa catactgaat tcagtaatta aaagaaccca ctgc 1724

<210> 255

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<400> 255

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cagcagcagg aaagcgtctc camtctccct gccagcgtgc atccccagct gtscacggm 120  
agagcctgga gaccagtac ctgcagcaca gactccagra gccagcctt ctgtcaaagg 180  
cccagaacac ctgtnagcat ctgctgcaga atcaagcgac tctttcttca gaagcagtct 240  
caactgcagg cctattttta tcagatgcag atagcagaga gctcctacct acagccaagt 300  
cagcag 306

<210> 256

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<400> 256

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ggctggcaaa gcacacaggc tgagcgctga ggagagggac cagctgctgc caaacctgag 120
ggctgtgggg tggaatgagc tggaaggccg tgatgccatc ttcaagcagt ttcatttcaa 180
agacttcaac agggcctttg ggttcatgac aagagtggcc ctgcaggctg agaaactgga 240
ccaccatcct gaatggttta acgtgtacaa caaggtccac atcacgctga gcacccatga 300
gtgtgccggc ctttcagaac gggacataaa cctggccagc ttcacgaac aagtagcagt 360
gtccatgaca tagaccctgc ctttcctctt tgaattcttc cgggggaaag ggtgactgaa 420
ctgggagtcg agggagggag ctgaggagcc cttaccctcc caccactccc ctccaagac 480
ccagccgccc ccgttgaggg ctgagtcctt gctgtgggat gtgccagtgt cccacccaac 540
accaggaatt tagacctttt ccctgcacca ctctcttcat cctgggggct ctgttacact 600
aatTTgaata aactctcccc tttctttgca acttcccagc aacaataatg attttcttgc 660
caggccgtct cttgctccct aattcatttc ccaggaagct gtgatacagg gtgaaataaa 720
gtcttgtctt agaaaccagg accctaaacc ccacactatg taatagaaac acatgtgttt 780
ttatgtctca aataaaacta ttatatcact tggaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa anaaaaaaaaa aaaaagaaat naaaaaaaaaa 890
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<210> 257

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 257

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ccgcccgcgc cgcgccccca tggcgccgcg caaggacact catgaggacc atgatacttc 180
cactgagaat acagacgagt ccaaccatga ccctcagttt gagccaatag tttctcttcc 240
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actgttccga tttgcctctg agaacgatct cccagaatgg aaggagcgag gcactgggtga 360
cgtcaagctc ctgaagcaca aggagaaagg ggccatccgc ctctcatgc ggagggacaa 420
gacctgaag atctgtgcca accactacat cacgccgatg atggagctga agcccaacgc 480
aggtagcgac cgtgcctggg tctggaacac ccacgctgac ttcgccgacg agtgccccaa 540
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gtttgaagaa tgcaggaaag agatcgaaga gagagaaaag aaagcaggat caggcaaaaa 660
tgatcatgcc gaaaaagtgg cggaaaagct agaagctctc tcggtgaagg aggagaccaa 720
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ttcctTTTTt taaaaattt taccctgccc ctctttttcg gtttgTTTTt attctttcat 840
ttttacaagg gacgttatat aaagaactga actcaacatt caggttgttt tttttttgt 900
ttctaagttt ttgccctatt gaagatgact tcagaaaatc cattccccag tcatgaaat 960
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gaataaaaaa cacatttgga acctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggac qgacgcgtgg gcggacgcgt 1140  
gggcggacgc gtgggtcga 1159

<210> 258

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (755)

<223> n equals a,t,g, or c

<400> 258

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cttactgttg gtggcaaaat tgccaacata agttaataga aagttggcca atttcacccc 120  
attttctgtg gtttgggctc cacattgcaa tgttcaatgc cacgtgctgc tgacaccgac 180  
cggagtacta gccagcacia aaggcagggt agcctgaatt gctttctgct ctttacattt 240  
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gaatttaatt ctttcaactt gcaatttgca aggattacac atttcactgt gatgtatatt 360  
gtgttgcaaa aaaaaaaaaa gtgtcctttgt ttaaaattac ttggtttggt aatccatctt 420  
gctttttccc cattggaact agtcattaac ccatctctga actggtagaa aaacatctga 480  
agagctagtc tatcagcatc tgacagggtga attggatggg tctcagaacc atttcaccca 540  
gacagcctgt ttctatcctg ttttaataaat tagtttgggt tctctacatg cataacaaac 600  
cctgtctcaa tctgtcacat aaaagtctgt gacttgaagt ttagtcagca cccccaccaa 660  
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<210> 259

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<400> 259

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ctatctttta acatttatct gtgaagtgaac aaatggccta cagctgtgag agcaaatgga 120  
catctcctcc tgaactctga gaagatgtca aaatccacag gcaacttcct cactttgacc 180  
caagctattg acaaattttc agcagatgga atgcgtttgg ctctggctga tgctgggtgac 240  
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acctgggtag agtgggtgaa agaaatgggt gccactggg acagcctaag aagtggtcct 360  
gccagcactt tcaatgatag agtttttgcc agtgaattga atgcaggaat tataaaaaca 420  
gatcaaaaact atgaaaagat gatgttttaa gaagctttga aaacaggggt ttttgagttt 480  
caggccgcaa aagataagta ccgtgaattg gctgtggaag ggatgcacag agaacttgtg 540  
ttccggttta ttgaagttca gacacttctc ctgctccat tctgtccaca tttgtgtgag 600  
gcacatctgg gacactcctg gggaaagcct gacttcaatt atggaatgst ttcattggcc 660  
tgtgngmagg gtcctgttta atggaagttt ttaattacac tccntcacag tatc 714

&lt;210&gt; 260

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

ggctttacgg ctgcgagaag acgacagaag ggggtggtgg tcgcgagrga gccggaaaga 60  
tggtgggttac cagatctgca cgggctaagg ccagcatcca agccgcgtcg gctgaaagtt 120  
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&lt;210&gt; 261

&lt;211&gt; 3000

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

gaattctcgg gtcgacccac gcgtccgacc cacgtgtccg gcttccccgg tgtcccccca 60  
tccccctccc cgcgcccccc ccgcgtcccc ccagcgcgcc cacctctcgc gccggggccc 120  
tcgcgaggcc gcagcctgag gagattccca acctgctgag catccgcaca cccactcagg 180  
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<210> 262

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<400> 262

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tccagtatct tatgacaaca cagtaaatta taccactcc aaatgcaaaa gctgaaacta 180  
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caagaaaaat cctaattgtt ttatctaagg agacggaatt ttccaatact gtagaggcat 360  
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ttcatgttaa cacatccagt gtacatgaag taggcaccga gttaaactat ttgtctacta 480  
tatagcatgt catcttaaaa gccttatatt ttcccaaaa tattaacttt atttttctcc 540  
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caagatatgc ttctttccaa ttggacttct aaattttctag caattctaac agtgcataaa 660  
agaggcaacc ccaaaagtgt agcagggtact gaataacaga tttgcagcct tgggtatcca 720  
cattaaaatt tgaaatctaa gtgaattact tcaagctgat ttcttaggtc aaggagagat 780  
tatggtcctt aaatgcctga taaggtcaca tacacaattt caagtgcatt atagtaaate 840  
catgtgwaca gctcctacag ctactaacct gcttctgccc tcacgggtag cgtgcacaat 900  
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atgttc 966

<210> 263

<211> 2738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<400> 263

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ttgacaatat ttggtgcagt gacatacttt actatcaaatt ggatggtaga tgcaattgat 180  
ccaaccagaa agcaaaaagt agaagctcag aaacaggcag aaaaactaat gaagcaaatt 240  
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cctcttaata tgcattgttac ttggagtgat atagcagggt tagatgatgt cattacggat 360  
ctgaaagaca cagtcattctt acctatcaaa aagraacatt tgtttgagaa ttccaggctt 420  
ctgcagcctc caaaagggtgt tcttctctat gggcctccag gctgtggtta aacgttgatt 480  
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accgataagt ggtatggaga atctcagaaa ttggctgctg ctgtcttctc ccttgccata 600  
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gcaagttatg gaagattgtg aagaggatgg aaaaactgaa tacaagatac caaaaatgaa 2640  
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tcctcttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2738

<210> 264

<211> 1520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 264

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ttccagtgtc ctctgggtgt ttccaagagc aacaagaaac gaataaatct ctgacccttc 180  
tcagggtgcag ccagagagac actagcccac tgatggaygg acagacgtgg gcagggtccg 240  
tgtcactaaa ccacccacca ctgccacagc tgcctacaac agacacatca gatgacactc 300  
cgggcaaata aatgattttc actgaggact tactggtttt aataataggt cctgggtgtg 360  
agaagtccct caacctattg tgcaatgagt tttgagaagc gggtaagctg tatgttttgt 420  
ggttytggtt cataaatkca tctacaggaa gaccaatatt gactgaatga agctttcatt 480  
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taagtgaat tcatattmaa actgaagatt ttagttacaa gaactgagtg cagattaaag 840  
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accagaaata ctgggttttt atataaatgc ttcataagatt tgttttatga taaagggcac 1020
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aactttattt aagctggaag ttaatgtctc attgttttca ttgttctaaa taaacacctt 1440
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<210> 265

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1502)

<223> n equals a,t,g, or c

<400> 265

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ctgctggact agctactgcc agttgtccta tcaactgtctc ttctgtagtt gctgccagtc 120
agcaactgtg tgctactaat acccggactc cttcatcagt cagaaagcag ttgtttgcct 180
gtgtgcctaa gacaagtcct ccagcaacag tgatttcttc tgtgacaagc acttgtagtt 240
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ctgcaagtac ttctcaagca cagctttctt cacaaaagat ggagtctttc tctgctgtgc 360
caccaccaa agagaaagtg tccacacagg accagcccat ggcaaacctt tgtaccccat 420
cttcaactgc aaacagttgc agtagctctg ccagcaacac cccgggagct ccagaaactc 480

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acccatccag tagtcccact cctacttcca gtaacacaca agaggaggca cagccatcca 540  
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tgactttgac atcaccacaga atggttgctg ctgataatca ggacaccagt aatttacctc 660  
agttagctgt accagcacct cgagtttctc atcgaatgca gcccagaggt tctttttact 720  
ccatgggtacc aaatgcaact attcaccagg atccccagtc tttttttgtt acgaatccag 780  
ttactttaac accacctcaa ggcccaccag ctgcagtgca gtttcttcag ctgtgaacat 840  
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agtgggga 1568

<210> 266

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 266

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catcatcaca ttgaagtttt ctgtctaaag gaaggttcca gctacctgtt acccttttgc 180  
taaacacagt tgcagtgttg cagtgtatct catgacaaaa gtgcactcta gttttctgtg 240  
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acatagtgct tttgacctgt gggaaatctc atcttggnnta ccatgggtgct gcacagacca 360  
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 gctgtctaaa ataaccggra gattattamc ccagcacgtg gragartgtg ctagtgggta 480  
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<210> 267  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (712)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (740)  
 <223> n equals a,t,g, or c

<400> 267  
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 caggaagctt cagataattg ttttatggat tctgacatca aagtacttga agatcagttt 360  
 gatgaaatca tagtagatat agccacaaaa cgtaagcagt atcccagaaa gatcctggaa 420  
 tgtgtcatca aaaccataaa agcaaaaacaa gaaattctga agcagtacca ccctgttgta 480  
 catccactgg acctaaaata tgaccctgat ccagtccttg cctgcattaa ttgaacaagg 540  
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 agaagtcttt ttcagttgtc ataaggaaac cagatgctwa acctgagact ttatwacaca 660  
 gattgaaacc acaccaacag aaactggttt caggaaaaac cttttacgtg gnacttgaaa 720  
 aagaaagcaa acttaaagan ttggccccc aaagaaaaat gg 762

<210> 268  
 <211> 1433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (893)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (947)  
 <223> n equals a,t,g, or c

&lt;400&gt; 268

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catggaacag gacgtgtcgg ggccgctgct ggggaaagca gccgggcccc cagatgctgg 180
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tttgwtttta cttccgtgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggg 1433
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&lt;210&gt; 269

&lt;211&gt; 2278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (205)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (335)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2277)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 269

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ctgtagactg tcttgaatgc caagctaaag tgtttatact ttattcagta aataaacaaa 120
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tcccacgtgt tatatcatga atttnttggg ccaaagtca tatatagaat tttttaata 240
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aaacaaaaar gaggtatgtg ggttacatgt atgaaacact ggatcagaag gaccagtat 420  
ttgatgcaaa aggaatagaa acagtcagaa gagattcctg ccctgctgtt tctaagatac 480  
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ccaaggaata cagaggaagt ttttcttata aaccaggagc ttgtgtgcca gcccttgaac 660  
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catacgtcat catttatggg acccccggag taccacttat ccagcttgta aggcgcccag 780  
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<210> 270

<211> 2533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2514)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2531)

<223> n equals a,t,g, or c

<400> 270

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<210> 271

<211> 1618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 470

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>  
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<222> (425)  
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<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

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<210> 273  
<211> 983  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
<221> misc feature  
<222> (915)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (930)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (967)  
<223> n equals a,t,g, or c

<400> 273  
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<210> 274

<211> 2006

<212> DNA

<213> Homo sapiens

<400> 274

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<210> 275  
<211> 1376  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1368)  
<223> n equals a,t,g, or c

<400> 275  
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<210> 276  
<211> 2594  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

&lt;222&gt; (2198)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

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catcgcaaag tctctagcgt catatttttc tcacccaaat tacgtttcca cgagattatt 2460
tatatatagt tgggtctatct ctgcagtcct tgaagggtgaa gttgtgtgtt actaggctgt 2520
gttttgggat gtcagcagtg gcctgaagtg agttgtgcaa taaatgttaa gttgaaacct 2580
caaaaaaaaaaaaa 2594
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&lt;210&gt; 277

&lt;211&gt; 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<400> 277

gctcaagggtg	ctgtgggtgct	tcttgatcca	tgtgcagggc	agtatccgcc	agttcgccgc	60
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gcgctcatgc	tttgaccccc	agcacatggc	catgctgtgt	agccccatcc	tctacggcag	360
ccacaccagc	ctgcaggagt	tcttgcccca	gctgctcacc	ttctacaagg	tggctggcgg	420
ctgccaggag	cgcascangg	gctgcttccc	cgtctacctg	gtctacagtg	acaagcgcac	480
ggtgcagacg	gccgccgggg	actactcagg	caacatcgag	tggccagctg	cacactctgt	540
tcagccgtgc	ggcgytcctg	ctgcgcgccc	tctgargccg	tcaagtccgc	cgccawcccc	600
tactggctgt	tgctcangcc	ccagcactca	aagtmatcaa	agccgacttc	aancccatgc	660
ccaaaccgtg	gaaccaaaa					679

<210> 278

<211> 1478

<212> DNA

<213> Homo sapiens

<400> 278

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gccaagggct	tgcacagcag	caggcgtctt	ggctgcccac	aagataatgg	ctagctcccc	180
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cccttcatcc	tggatgaaat	aggcgccgac	attgaggaca	gacacattgt	gggtgcctgc	360
gcggccggcg	tcaccatcag	ctccattgag	aagaagctgt	cagcgtttcg	gccagccccc	420
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gccacaggca	cgcacgcccc	ggtggaggac	gggaggctca	tggagcagct	gctgagcagc	540
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ctgccacatg aggagggagg ccctgcctgt gtgggagggt ggttactgtg ggtggaatag 1380  
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gattaaaatg tcaatgtaat ctaaaaaaaaa aaacaaaa 1478

<210> 279

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 279

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gcctgcctgt cgccgtgcgg gccgcccac ccgaccgagc tggtcagcag tcacggcgcc 120  
tggtcttggg ggactggtgg cgggcggccc cgaagccttc gcggccttcc tgcgacgcga 180  
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gccgggagar garggcgcgg cggcggcgcc ggcgccagg actcgttcgg ctccctgcac 300  
gactgctctt cgggcactac ttccccgagc agtcggacct ggagccamcg ctggtggagc 360  
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tccagccccc cggcgttggc gaagggtggc cctacggctg caaggacgct ctgngccaca 480  
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cttcagagac ctgcaagaaa tatgcaggaa acagggagtt gctgtgtata tccttctgga 600  
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taagattatt gggaaggttc acgaaaagt caggttgatt gatggcatcc gcgtggcaac 780  
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tcagtgcagt aacatgatgt acagggttgt agcctgtttt gcatttttct taggttgat 2220  
gctcttctgt tttaaagggt tgaatcacca gcatttttgt gatcaaaatc ctatttagaa 2280  
aaaataaaac tactttctgt ttatctcttt agaaaaaaa a 2321

<210> 280

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 280

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gtatttcccg tccccatct agtaactccc atctcagccc acgtatctcc ctgagtggaa 120  
atctcggggc ccagaccagt cgattgggag gtccgcccct cccttcagcg acttggtctg 180  
tgttttggca gttgccgcgn acaacagtca cttccgggaa ggggctctgc gaatctcctt 240  
ccgtcgggtc gctcagaatc agctgtcctc tcagactgtg tgggtgggtt ccccgggcgc 300  
agctccgtac gggcttggtat tgctgggcct cgggtgcacc cagcctcccc cactcgggtt 360  
ctgagcttga gctggcggct ctttaactct gcttcactgt tgctcttggc aacatccact 420  
tccgggagcg agtgccgttt cccccgctca ccgcgggcta gggagcgtgg gattccggac 480  
tgtgagcggc tgtagtgcg tcgcagctgc tggcgatccg gcgaccctcg gccggcagga 540  
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ctgatgctgt actatcacag aagacaagag gagctcaaga gattggaaga aaatgatgat 1380  
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gtgaaagaca taaagtggag accaagatga agttcaccag ctgatgacac ttccaaagag 1500  
attagctcac ctttctccta ggcaattata atttaaaaaa aaaaaaaagg ccacttactg 1560  
ccctctgtaa aagatgttaa catttctagt tttcttttag tgtgaatttt taaaatagca 1620  
gttattcaag gttttagaac ttaataaata cctagtcaga aaaaaatgtg taaatcgttt 1680  
ttgtttcagg act 1693

<210> 281

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<400> 281

ggcagagcca ggactcagta atccctgggg ggcaggctct gnagccctcg gccacacgtg 60  
gctnccggca cccatgggtcc cagtgccttg gaatggagac ggccagttct ggggccagat 120  
gtggtgctct ggaatccagt cccatttcct tcctggccac gagctgtccc agcggcctct 180  
tcagccgcat tcagccccta cttacctggg gaccccggt ggggcacgag aagcaccagg 240  
gggggttaggg cccaaagg 258

<210> 282

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1764)

<223> n equals a,t,g, or c

<400> 282

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gtgccaggta ccccgcatcg tgacccttca cttggtgtct taggaagtca agctgaggga 120  
tgctgagtcc tcccctgctg gcccctgcag cccagccct gcttttcatc cccacccct 180  
gcaaacatgg aggagcccc tccttctcac ctcggtctcc tagccctga catggagaas 240  
cctgagacaa gccacagaac ccctcttttc taaaatggag acaataattt cctacctccc 300  
aagggagcag agaggcctcg tggcacgtcc gtggccaggg agcccactgt cctggctggc 360  
ggcgggacg tgcrctcctc tgtctcccg atgagaagcc ccgtttccat ggtcttgacc 420  
cttcctttct cccggctgtc agaactgggt ctcttgattt tgcccctaca ttatgcctct 480  
gtgggaaaaa aaaaaaatc agaccaagaa atgagcctga aattcagtgt ttaccatggc 540  
tcaaggatgc ccatctggtg tccagttgcc ttttgtattc aaatgaaaat gctttgtaca 600



actgaggagt tacagtgaag tgtaaccag ggggccagg agcgagttga aaagatggag 660  
tgagtgtatt tgcagccagg gagctgcagg gtggatttga ggggccatac cctctgagca 720  
cttaaaaaag gtatttgctc caggccaggc agcaggctgt ggacaccctt gccaccactg 780  
gggactgcca ctgaggactc cccgagcacg ttgttccccg tcttctccaa ggtggtgagg 840  
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acacagaatt ccttttttaa aaaaatatgt gtgtattttg gaaaaaaaaat tcatagatgt 1560  
taaaatttct gcatggttac cagtttttct cacaacactg aatttggtag cttttcccga 1620  
aaaaatcttc acagtaattt tttgtctgta tatatttgay ggcctttttt taaaaaaaaa 1680  
aaaaraaaag aaaaatataa tkgtttgatt tttgagattw aaacaaacma aaagagaggc 1740  
attttcmaaa tttcagaact ttcn 1764

<210> 283

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (769)

<223> n equals a,t,g, or c

<400> 283

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ttgtgggaga gttccccgc ctcagactcc tggtttttcc caggagacac actgagctga 120  
gactcacttt tctcttcctg aatttgaacc accgtttcca tcgtctcgta gtccgacgcc 180  
tggggcgatg gatccgttta cggagaaact gctggagcga acccgtgcca ggcgagagaa 240  
tcttcagaga aaaatggctg agaggcccac agcagctcca aggtctatga ctcagctaa 300  
gcgagctaga cagccacttt cagaagcaag taaccagcag cccctctctg gtggtgaaga 360  
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agtttctaac ttggaaaata aacaaccagt tgagtcgaca tctgcaaaat cttgttctcc 480  
aagtcctgtg tctcctcagg tgcagccaca agcagcagat accatcagtg attctgttgc 540



tgtccccggca tcactgctgg gcatgaggag agggctgaac tcaagattgg aagcaactgc 600  
agcctyctca gttaaaacac gtatgcaaaa acttgacagag caacggcgcc gttgggataa 660  
tgatgatatg acagatgaca ttccctgaaag ctcaactcttc tcaccaatgc catcagagga 720  
aaaggytgct ttcccttccc agacctctgn ttttcaaaan gccttcggna acttccagtt 780  
ggccaaaaaa ggggcccgt 799

<210> 284

<211> 1489

<212> DNA

<213> Homo sapiens

<400> 284

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ctcttgatca gaatttccag gtggcctacc cagactactg cccgctcctg atcatgacag 180  
atgcctccct ggtagatttg aataccagga tggagaagaa aatgaaaatg gagaatttca 240  
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taattggtag tgtagaagtg aaaaaggtaa tggcatgccc caggtgtatt ttgacaacgg 360  
tggaccacga cactggagtc atagacagga aacagccact ggacaccctg aagagctacc 420  
gcctgtktga tccttctgag aggggaattgt acaagttgtc tccacttttt gggatctatt 480  
attcagtgga aaaaattgga agcctgagag ttggtgaccc tgtgtatcgg atggtgtagt 540  
gatgagtgat ggatccacta gggtagatat gcttcagcaa ccaggaggga ttgactgaga 600  
tcttaacaac agcagcaacg atacatcagc aaatccttat tatccagcct tcaactatct 660  
ttaccctgga aaacaatctc gattttttgac ttttcaaagt tgtgtatgct ccaggttaat 720  
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gcttttaaaa taattaagat catcaaaaat gctattttga atgttatcat ggctattaca 840  
cttttacttc ctgactttaa tattgatgaa taaagcaagt ttaatgratc aactaaaaag 900  
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ataaatgtga atctcaattt tstaataaaa aaaaaaaaaa aaaagttct 1489

<210> 285

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 285

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agcatttttt atcaggcagg accagggtggc acttccacct ccagcctctg gtcctaccaa 120

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tggattcatg gagtagcctg gactgtttca tagttttcta aatgtacaaa ttcttatagg 180
ctagacttag attcattaac tcaaattcaa tgcttctatc agactcagtt ttttgtaact 240
aatagatttt tttttccact tttgttctac tccttcccta atagcttttt aaaaaaatct 300
ccccagtaga gaaacatttg gaaaagacag aaaactaaaa aggaagaaaa aagatcccta 360
ttagatacac ttcttaaata caatcacatt aacattttga gctatttcct tccagccttt 420
ttagggcaga ttttggttgg tttttacata gttgagattg tactgttcat acagttttat 480
accctttttc atttaacttt ataacttaaa tattgctcta tgtagtata agcttttcac 540
aaacattagt atagtctccc ttttataatt aatgtttgtg ggtatttcct ggcattgcac 600
tttaattcct taccctagcc tttgggcaca attccygtgc ttcaaatga gagtgacggc 660
tgggcatggg gggtcccgcc ctgtaaatcc cagtnacttg gg 702
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<210> 286

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<400> 286

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cttcaaaatt atttgggcat agtgctctat gtttaataaa ggtttttata gatgttttat 180
tccatatgtc ttcacaagtc aggaccacaca attaccctgt ttttgtttga acagcagtgt 240
cccatctggc ttcgacccaa caaagttcat taacctggga tgaatggggg tggcctgttg 300
gtgatttgga tgctgttctg tgatctaaaa caactcttat tgaattgtat ttactcccta 360
aacaacactt gacaggctgt tgcacagggc ttctatagat cagtgtgtta ggaatgggag 420
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<211> 2873

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2870)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2871)

<223> n equals a,t,g, or c

<400> 287

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<210> 288

<211> 2104

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1323)

<223> n equals a,t,g, or c

<400> 288

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<210> 289

<211> 1251

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<400> 289

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<210> 290

<211> 1591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1568)

<223> n equals a,t,g, or c

<400> 290



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<210> 291

<211> 2386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 291

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&lt;210&gt; 292

&lt;211&gt; 983

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

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983

&lt;210&gt; 293

&lt;211&gt; 2655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2611)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2641)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2651)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 293

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<210> 294

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1679)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1717)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1729)

<223> n equals a,t,g, or c

<400> 294

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caacccatgat gcaattgtag ttcgaaagat ggctatctca gctgttgctg gtatccttaa 180
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gatgccttcc tgccagttct gaagcccat ttagaacatt tgggtgcaga ttcacatgaa 660
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cttttgggag ggacgaacca actgggaggg ttccggagaa atgggctggc ctaacttanc 1680
cttaagccgg gtntggctaa acagtggtaa acttttncct taacccatng ggaccagt 1738
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<210> 295

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 295

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cgtggtggaa ttgacttcc tggggaagga ctgcatccgc tactacaaca gagtgccggg 240
ggagaagccg gtgtacaaga acttacagct ctttatggag aacaaggacc cccgggacga 300
cctcttcgac aggctgacca cgaccagcct gaacaagcac ctccaggagc tgatggacgg 360
gctgacggcc aaggtgttcc ggacctacaa cgcctccatc actctgcagg agcagctgcg 420
ggccctgacg cgcgccgagg acagcatagc agctaagatc ttatcctaca accgagccaa 480
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gatgcagaat ctccagacga agatccaggc aaagaaggag caggtggctg aggccagggc 600
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cctggagaag aagaggyggc tcctggagaa gctgcaggag cagctggcgc agctgagtgt 720
gcaggccacg gacaaggagg agaacaagca ggtggccctg ggcacgtcca agctcaacta 780
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tgaattctaa cgacgagccg tggtgaaact tcttttgtat gtgtgtgtgt ttttttcact 960
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```

<210> 296

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 296

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tgtacatctt ccaaagcttt taaaataaaa aagaggagga gttacacttg cagaatgtat 120
atcttctggg atgcttctcc ctactccact ggacactggt tgaaagtgtg tagtttataa 180
tattcttacc taggctgtgt tggtcagctt agaatatcta agtgatagga taaaactaaa 240
gctgagtggc aaactgccag tctatatact gcatttagtc tataggctgt tttgtttggc 300
ccacaaagca ttttattatt taagtttatg ccaacattta agaatcaaga atttcccaga 360
cattcagatt tctgacttca attgaaaatc tgacagtata aaccctatta tattcctgca 420
tggcataaaa tcttcagttg ctgaatgggt atatccactt ttagaaagag tactctaccc 480
tgttctgcat tcatacaacc taagccaacc cgccttcac catcccactt ctctttcagg 540
ttatctgctt aggctggtag gcatttgtgt ttataaacct tgaactcaag ctgctagatg 600
gtcagttgca ttgtgaactg aactatctga atgatttttc attgtaaata tatagctatn 660
ggaccacttt aaatncccct ttct 684
```

<210> 297

<211> 1838

<212> DNA

<213> Homo sapiens

<400> 297

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aaggtggctg ttttcacttg gcatggctgt tctgtgcaac tgagcggccg cactgaggtg 360
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aagattacat ctgttttagc agatgtgttc aaccaaaggt gtgaggtgaa ccgaaggcat 780
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gccactttga attctctaag accctggaga attgcatttc tttcactgtg ctactatgtg 1680
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```

<210> 298

<211> 1635

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1635)

<223> n equals a,t,g, or c



&lt;400&gt; 298

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atatttgaaa aaatcagtag cacaaatata ttttgattgt cacttacaaa ataaaataca 1560
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aaaaaaaaaa aaaaan                                     1635
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&lt;210&gt; 299

&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (790)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (857)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (860)

&lt;223&gt; n equals a,t,g, or c



&lt;400&gt; 299

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ttgccacatg tgaggcncan ggtagttc 868
```

&lt;210&gt; 300

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (526)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (542)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 300

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gctcgcgcca gctcgtccc gcagccatgc ccaccaccat cgagcgggag ttcgaagagt 120
tgataactca gcgtcgttg cagccgctgt acttggaat tcgaaatgag tcccatgact 180
atcctcatag agtggccaag tttccagaaa acagaaatcg aaacagatac agagatgtaa 240
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gtttagttga catagaagag gcacaaagga gttacatctt aacacagggt ccacttccta 360
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tgaaccgcat tgtggagaaa gaatcgagt gtgaaacaga acaatatctc actttcatta 480
tactacctgg ccagaatttg gagtcccttg aatcaaccag cttcanttct caatttcttg 540
gntaaag 547
```

&lt;210&gt; 301

&lt;211&gt; 865

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

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ttagtagaga tggggtttca ccacattggc caggctggtc tcaaactcct gacctcaagt 60
```

gaatccacct accttggcct accgaggtgc tggaattaca ggtgtgagcc accgcgcctg 120  
gcctaatact gctttattac aacgttatct gtgggtcgga atccttttat attgggttaac 180  
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tgtatttgt aaagggacag gacaagacag ccttaaaaaa ttgaatatag ttggtgagac 360  
aactcagaag tacaggtttg agcatccctt attcaaaatg cttgagaagt gttttgggtt 420  
ctggaatatt tgcattaatg cttgccagtt gagcatccca ggtccggaaa tccacagtgc 480  
tccaatgagc ctttcccctg agtgtcacat ctgtattggc actcaaaaag tttcatattt 540  
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tgctagtgtc tcataaagtc ttcyaaaaaa aaaaaaaa aatcaaatgt ttggaagcca 720  
ttttgtgtta ctgtgtgact ttcttttact caaaaacagc accataaaat ttctgacaag 780  
tactataggt aaagaaatcc ctttataactt aacctagtat tttctacctt tccccatcta 840  
aaataaaatt tttataccac tttct 865

<210> 302

<211> 815

<212> DNA

<213> Homo sapiens

<400> 302

asaagcataa acataagcac aaacacaagc ataagcatga cagtaaagaa aaggacaagg 60  
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ctgagaaggg gacaaaaaga cctttccttt catgtccaga agaatgtatg taactaaagc 180  
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attctgaatt catttaagtt ctaagcattt gatttatgtt atttatacag ttgggatcta 300  
attaggaaaa tgtgttttgt agttctggat aaactatttc atccgctgtt tcctcccaa 360  
aacacacaca cagagcaaac tccctttcat aaaagccctc atatccactg gcagtccccg 420  
ttcgcacatc ggtctccatg tgtaccgcca aagtcaatta tgtttgaaag cctttgggtg 480  
atgttatggg gcaaagttat gatttacaca gaagcaactg ccaaactctgt ggtgcaacca 540  
ctatctccag tgaaatattg tataacacca tttggaacta ctgaaaagac agtggctttt 600  
ctacagtact cttccttatt gcaccatttt tgtattaacg tagaaactaa gcatcagaat 660  
ttatgaacaa agaatatgtt atttttccyt ttgcyctaaa atactgagga tttggggaag 720  
caattcyttt ttaaaaaaat tttggaataa ctaycttttg rtacacattc gggsggttac 780  
ggtgttgggg atttaggcag gactatccaa atccc 815

<210> 303

<211> 1919

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<400> 303

actgacagta cggtcggaat tcccgggtcg atccacgcgt ccgcggacgt ggsacaaaaa 60  
cagatgctag gaagcttggc ttctctctct tgttgacct tttttgaacc aacatctttt 120  
ttattatatt cagagtatgt ttttaagtgt atcttaatat atacattttt taggacatct 180  
taaattctaaa caaaaaataa aatgaacatc tcttgaaacc tgttaaaaca accagttaaa 240

gccacagatg gctttcagcg cagtagcagc agaggccagt ggactctgag gactcctgag 300  
gggcggggcg tgtagccaac caggtgcatg ccgggaccat ggcccccata cttggctgct 360  
tcctgtgaca gtgaaataca tccttcaagg tggcagctgt tagggctgaa tcttctggag 420  
aaaaaggtgc catctcagga gaatagcttt tactctggta ggaatgcttc cgagacacca 480  
caaggcagcc tgaacactca gttgcagggt cgggcttgcg gtgggtgacc cagagccacc 540  
aaagtcacat ccacaactaa tgaggggaaat ctgtaaagcc agttagatag aagaatttta 600  
tttttctgtg ggttttgtgt tgtctttttt atgttaaaaa gaaatccagt ttgtgttttt 660  
ctatagraaa agtaaaagat caggttatac tttaggttag gggttctatt tattcctggt 720  
agtaataaaa attaacaaat ttctttgttt aacaaaagat taatctttaa accactaaaa 780  
tacatagact gattgattat tcaacacatt ggaattgatg tcggtcatag tttcctgaag 840  
catttagtta caacctgaag gaataaaatg atttgtggaa atgcttaaaa tagacctaac 900  
tgaatacagt ctcactcttc cgcgcctggc ttacctatct gtggaaagct aggcttccca 960  
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aacttgacgc ttggtattgc agagaagatt ttataagaat tttgctttag agaatgccac 1560  
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taaagtatgt tgagcagaat gttgtacttg aaaatgctat aagtgagatg gtatgaaata 1860  
aattctgact tatgaaaaaa aaaaaaaaaa agtcgacgcg gccgganatt tagtagtag 1919

<210> 304

<211> 157

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<400> 304

aggtgtacac cctgcccagc cacaagccga tttttaaaag gtcaaagtgt atgacagcca 60  
ttttacagga aaaaaaaaaa ttgtatagtt gtggtgacgt tcctcacaca gngcaccagc 120  
ttcagggagt ctgtcccttg cagaccctg aaccg 157

<210> 305

<211> 343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 305

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aatgcagtgt tttcgattac tgatctctca ttacccaact atctgatggc atcttcgggt 60
ggactgcttc ctaccagct tctgaattct tacttgggta ccaccctgcg gacaatggaa 120
gatgtcattg cagaacagag tkttagtggg tattttgttt ttgttttaca gattattata 180
agtataggcc tcatgtttta tgtagttcat cgagctcaag tggaattgaa tgcagctatt 240
gtagcttggtg aaatgggaac tggaaatctn ctctgggttaa aaggcaatca nccaaatacc 300
agtgggctct ttcattctac aacaagagga ccctaacatt ttt 343
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<210> 306

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (661)

<223> n equals a,t,g, or c

<400> 306

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gaagcaggca ggttgctcag ctgcccccg agcggttcct ccacctgagg cagactccac 60
gtcggctggc atgagccggc gccctgcag ctgcgcccta cggccacccc gctgctcctg 120
cagcgcagc cccagcgcag tgacagccgc cgggcgccct cgaccctcgg atagttgtaa 180
agaagaaagt tctacccttt ctgtcaaaat gaagtgtgat ttaattgta accatgttca 240
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ttccggactt aaactggtaa aacctgatga cattggaaga ctagtttcct acacccctgc 300  
atatttggaa ggttcctgta aagactgcat taaagactat gaaaggctgt catgtattgg 360  
gtcaccgatt gtgagcccta ggattgtaga acttgaaact gaaagcaagc gcttgcataa 420  
caaggaaaat caacatgtgc aacagacact taatagtaca aatgaaatag aagcactaga 480  
gaccagtaga ctttatgaag acagtgctat tcctcaattt ctctacaaag tggcctcagt 540  
gaccatgaag aangtagcct tctggaggag aaattcgggtg acagnctaca atnctggctg 600  
gttacaaatc caaggccag acccaatatt cccaacaaaa aacttttgnt tggccaggtc 660  
nttcaatttt tgaaaaaaag tgggttttgg tttaac 696

<210> 307

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 307

cctaggcctc ccaaaatggt gggattacag gcgtgaggca ccgcacccaa cctaacagag 60  
gaaacacttc aaatgcacat cctcacattt ctagtctacg tagctggaaa aaaaggacat 120  
tyttaatatg ctaatgtgga ggtcacctag ttaccctaag ggagaaaagc aaggcaagga 180  
cccactgcac agcaagttcc cccttggaag ccacgggcg cactgcccac aaatgcacat 240  
aatctctgca gaaatacaaa agccctaatt ctggctgcac tggggacaca ggtaggagga 300  
aattttcccc tgtaagcagt tttgaattct gaactatgtg gacagamcac caattttaaa 360  
acaatgaaag tgagttggct gggcacatgg tttngc 396

<210> 308

<211> 549

<212> DNA

<213> Homo sapiens

<400> 308

agagacaggg ggcaagaagg ggtgtmaggg ccagtraca aaatcattgg ggtttgtagt 60  
cccaacttgc tgctgtcacc accaaactca atcatTTTTT tcccttgtaa atgcccctcc 120  
cccagctgct gccttcatat tgaaggTTTT tgagttttgt ttttggctct aatttttctc 180  
ccggttccct ttttgtttct tcgttttggt tttctaccgt ccttgtcata actttgtgtt 240  
ggagggaacc tgtttacta tggcctcctt tgcccaagtt gaaacagggg cccatcatca 300  
tgtctgtttc cagaacagtg ccttggtcat ccacatccc cggaccccg cttgggacccc 360  
caagctgtgt cctatgaagg ggtgtggggg gaggtagtga aaaggcggt agttggtggt 420  
ggaaccaga aacggacgcc ggtgcttgga ggggttctta aattatattt aaaaaagtaa 480  
ctttttgtat aaataaaaga aaatgggacg tgwaaaaaaa aaaaaaaaaa aaaaactcga 540  
gactagttc 549

<210> 309

<211> 1778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1744)

<223> n equals a,t,g, or c

<400> 309

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ctgtcttggc cttccagggt gctgggatta caggcgtgag ccactggaac ctggccttgt 60
tttgctttat tttttctctt acatgaagta aagcgctttg gtcaaacaca caaaaataact 120
gccttgtact ggtggttggg ttcatttagtg gatcacacac agtggttctac ttggcttgtgta 180
aaatggtgcc ttggataggg tgagtttggg taagtatgta tgtatgtatg agttatagca 240
aaattaagta gattgaatca agtccatgca aaagcaataa aacagtttta attttttaaat 300
tttttaaaaa ttaaaacttt aataaaacag tttttaattt tttgctaggt tcttttaaaa 360
aatgatgtaa cttacatgga agtcttcaca ggactttttt ctttcttggg actattgaaa 420
tgtaatttag gatgatttga tcttccatct caagttgtca acatggctgt gtcattctgg 480
cttacatatg ttttatttaa caaaattcta gtcaagggat aagggcataa tgaagacaag 540
cttcagttat gaaagtacaa actatttgtg tgattaattt ttaaaaaatga cattaagaag 600
cccattgtaa aataatattt gcagtcaaat ggtttttctt gctgtaagtc ctggttgtagc 660
tatgtttagg gtagtggttc tcatctacct tggagtgcac aagacttacc tagcaggctt 720
gtttaaaaag ttcagattcc tagctttgta cccagggtt gcctcagggt gtatgggctg 780
tggtcctgga gtcatcactt ttataaatag tgggttcagag accacagaga gagactgctt 840
catcgaatgg gaagtaccaa ggagaaagta caattcagta ttgtctggag gcaagtggac 900
actttgtacc tgaggtttag aatagggtgg ctcttgccag tacaatcccc aggcgttttc 960
tgtgttcaga agtagtaaga atgcctttta ttcagaggat tatctaagct ctttaaagct 1020
gtttttctcc attgtcatag tgccttctct gaaaaatgaa tgtacaggta tcctattttc 1080
taatgtaatt aggatttttt aaaagcaatt tttgatagtt tttcttttaa aaagtataat 1140
tcagcactgt gacttgaacc cccaaatctt tcacatacag gtgaaacatt aagccacaaa 1200
taaaaataat gaacaagaaa gaagacaaga tcctaattcc tgtcattagt gacctaaagta 1260
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tatagttttt aaaaagtgca atgggatgag attatgctat tagtatatta aaagcatgtt 1620
tctgttttac tccaatttgt aagatcattt aatggaataa agatcacac accaaaaaaa 1680
aaaaaaaaag gcgggcccgt ctanaagatc caagcttacg tacgcgttgc atgcgacgct 1740
atanctcttc tatagtgtca ctaaattcaa ttcactgg 1778
```

<210> 310

<211> 771

<212> DNA

<213> Homo sapiens

<400> 310

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attaatttaa aaagcccccc aatctgtggt attttattat ggcagcccta gcaagctaata 60
acagtgggtt gagaggctgg gaggggtgag ggaagataa acttttaaaa agctcttata 120
tttcatttca atcagttaaa aatacttgct cagtgtaca attttgcttc tcagcttcca 180
ctctaataat gttgtgccat taagcaattt agctaattct gacatttctt agattcataa 240
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tgtaggagc atttaatctg tatttttaciaa gttaggaagc agaggatcag agatgggaaa 300  
ggactagccc aaggccaaca ttaacaagcc ctctaacaaa aacttttaciaa tacattttatg 360  
ttgaatggaa ctccaagatc tcacctctcc atccaggaat ggagtccatg taatcaaagt 420  
gaacttaaaa ataggacagt ttcaacaagt caggagattc acagcaactg atcaaaggga 480  
gtccagtcaa cgtgagcaag cgtgattatg atgaggaagc cccctctgct ttaatccaca 540  
caaggaacgt aacctgaagt aacctgatgt taaccaatct gctgtgtcta ctatgctgtt 600  
tccttggtcc tgctagtgtc gctttacaaa tgcagaccat tctatcatac ctggcrgggc 660  
ttctgtttta ttttgtaggc tggatgtctac ccagttcatg aatcgctaataaaaagccaat 720  
tagatcttta taaaaaaaaa aaaaaaaaaat tactgcggcc gacaagggaat 771

<210> 311

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1005)

<223> n equals a,t,g, or c

<400> 311

tcttgaaaac ccgggtcgac nggacncgtc cgcgaaggcc agcccttcga atactttgtt 60  
tatggagctg cctgttccga ggttgaaata gactgcctga cgggggatca taagaacatc 120  
agaacagaca ttgtcatgga tgttggtgtc agtataaatc cagccattga cataggccag 180  
attgaaggtg cattttattca aggcattgga ctttatacaa tagaggaact gaattattct 240  
ccccagggca ttctgtacac tcgtggtcca gaccaatata aaatccctgc catctgtgac 300  
atgcccacgg agttgcacat tgctttgttg cctccttctc aaaactcaaa tactctttat 360  
tcacttaagg gtctgggaga gtcgggggtg ttcttgggtg gttccgtgtt tttcgctatc 420  
catgacgcag tgagtgcagc acgacaggag agaggcctgc atggaccctt gacccttaat 480  
agtccactga ccccgagaaa gattaggatg gcctgtgaag acaagttcac aaaaatgatt 540  
ccgagagatg aacctggatc ctacgttcct tggaatgtac ccatctgaat caaatgcaaa 600  
cttctggaga aaacagagtg cctcttccca gatggcaatc tgtcctatct ctgtgctgga 660  
agatgctaga tctgaaagac agagtattcca cagttcagaa atcatccac agtggtgctt 720  
ttctatggag ctgatttaaa gtattccatt tagatttgat agatatgctt aagcaatcta 780  
taaatcattt tcaatgttat aaacactaat tgggtttcctc taggggtgata ttcgtcatta 840  
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ccttcctctt gtcagaatga atatagacac tgtatctaag tgggaccaa gaaaaaatag 1080  
cgaactttca ccaaagtttt catgaaaacc caaagcttt aaaagktact atcaagaaat 1140  
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tgtaaccaga tacataaaga gctcttacaa ctcaataaaa ggcaagtaat ttaaaaatag 1260  
gcaaaagaat tgctggatgg tatggtagtt ctatttttag tttttaccct aactactctg 1320  
acttgatcat ttaacattct gtgtatgtaa caaaatatca catgcataaa tattatgtat 1380  
caataaaatt ttttaatggg caaaaaaaaaa aaaaaaaaaa 1419

<210> 312

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<400> 312

gggaagttca aagggaattt ttttattggt tagcttggtt ttaggttgca gtaaattctc 60  
taggtcatcc agcaggatta ggaagagaag cattgtgaga aacaggtttt gggttttgct 120  
gaaatttgct tgtcagcatt gcatcacttt tccttaactg ttctctaagt actgatgtct 180  
ttcaaattga ctcagakcat actccttattc tttgagcaga atattttgaa cagaaaawta 240  
agccattttc atttatatac ctaattcaat aggtttataa ataaaagggc aaatcctcac 300  
gaataataca gtacagtga aaattgctct ccccttagga actgaggaat agaaaaacaa 360  
tttcctctta cattgtttat agtaggtagc ccttgaaaag aaaatcactt atccctgcc 420  
cccccatggc cctcataaca agttaggga actgaaattg ctggaaattt aggattctwa 480  
ggcamcaggc wgggaaatag ggtcctcata cctgacctt ttctnc 526

<210> 313

<211> 2435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2408)

<223> n equals a,t,g, or c

<400> 313

ggcacgagcg cgaangacac ggccctgggcg ccgactgcag agccgggagg ctggtggtca 60  
tgccgggggt cctgggttcgc atcctccttc tgctgctggt tctgctgctt ctgggcccta 120  
cgcgcgggct gcgcaatgcc acccagagga tgtttgaaat tgactatagc cgggactcct 180  
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cccgtttcta ctggaaggac cggctgctga agatgaagat ggctgggctg aacgccatcc 300  
agacgtatgt gccctggaac tttcatgagc cctggccagg acagtaccag ttttctgagg 360  
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ggcccgggccc ctacatctgt gcagagtggg aaatgggagg attacctgct tggctgctag 480  
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gcttcctgca gaagcgcttt cgccaccatc tgggggatga tgtggttctg tttaccactg 720  
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actttggaac aggcagcaac atcacagatg ctttcctaag ccagaggaag tgtgagccca 840  
aaggaccctt gatcaattct gaattctata ctggctggct agatcactgg ggccaacctc 900  
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agttaaagac agtgggagca gctctggaca ttctgtgtcc ctctggggcc atcaaaagcc 1260  
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tcaactctgaa cataacaggg aaagctggag ccactctgga ccttctggta gagaacatgg 1500  
gacgtgtgaa ctatggtgca tatatcaacg attttaaggg tttggtttct aacctgactc 1560  
tcagttccaa tatcctcacg gactggacga tctttccact ggacactgag gatgcagtgc 1620  
gcagscacct ggggggctgg ggacaccgtg acagtggcca ccgatgata gcctggggcc 1680  
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tgtttgtgcc ccagcacatc ctgatgacct cggccccaaa caccatcacc gtgctggaac 1920  
tggagtgggc accctgcagc agtgatgatc cagaactatg tgctgtgacg ttcgtggaca 1980  
ggccagttat tggctcatct gtgacctacg atcatccctc caaacctgtt gaaaaaagac 2040  
tcatgcccc acccccgcaa aaaaacaaag attcatggct ggaccatgta tgatgatgaa 2100  
agcctgtgtc tttgagggat tctaccctga acatacctca cagatcctcc ctgtcatgcc 2160  
acatttcact gattggaatg tggaaatgga aaaggaattt aggatgtgca ttttcacctg 2220  
aggtttccct gcatccctgc agtgccaaag cccacacctc agggaccacc tggaatgtgt 2280  
gaggggctga cagcacagta acgtgcatac atatctgcag ggctggaatg gaagctttaa 2340  
agggtgtagt gatttttatt ttggaagaat catgttacct ttttgttaaa taaaatttgt 2400  
actcaanaa aaaaaaaaaa aaaaaaaaaa aaaaa 2435

<210> 314

<211> 2543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2538)

<223> n equals a,t,g, or c

<400> 314

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tctccctccc ttgcctcaga tttattgcta aacatgggtg catttttggg taaacccaaa 120  
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ttatctgaa agaagtttct ggggttaggag aagtaatgaa tgtatccatt tgtacatggg 2460  
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<210> 315

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<400> 315

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cgtgaagtac tacaccctag aggagattca gaagcacaac cacagcaaga gcacctggct 180

gatcctgcac cacaaggtgt acgatttgac caaattttctg gaagagcatc ctggtgggga 240  
agaagtttta aggggaacaag ctggagggtga cgctactgag aactttgagg atgtcgggca 300  
ctctacagat gccagggaaa tgtccaaaac attcatcatt ggggagctcc atccagatga 360  
cagaccaaag ttaaacaagc ctccggaaac tcttatcact actattgatt ctagttccag 420  
ttggtggacc aactgggtga tccctgccat ctctgcagtg gccgtcgcct tgatgtatcg 480  
cctatacatg gcagaggact gaacacctcc tcagaagtca gcgcaggaag agcctgcttt 540  
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aacaatgatt ttaatatatc tcttttcttt tcttccgaca ttagaaacaa aacaaaaaga 660  
actgtccttt ctgcgtcaa atttttcgag tgtgcctttt tattcatcta ctttatatttg 720  
atgtttcctt aatgtgtaat ttacttatta taagcatgat cttttaaaaa tatatttggc 780  
ttttaaagta aaaaaaaaaa aaaaaagggg gccgccctaa aggggtccn 828

<210> 316

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 316

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aaagaagtcc tttcaagtct ctaggactgg actcttccta agcaagtccg gaagcaccct 180  
cactatgtgg ctctacctgg cggccttcgt gggcctgtac taccttctgc actggtaccg 240  
ggagaggcag gtggtgagcc acctccaaga caagtatgtc tttatcacgg gctgtgactc 300  
gggctttggg aacctgctgg ccagacagct ggatgcacga ggcttgara gctgtgctgc 360  
gtgtctgacg gagaaggggg ccgagcagct gaggggcccag acgtctgaca ggctggagac 420  
ggtgaccctg gatgttacca agatggagag catcgtcgca gctactcagt ggggtgaagga 480  
gcatgtgggg gacagaggac tctggggact ggtgaacaat gcaggcattc ttacaccaat 540  
taccttatgt ragtggctga aactgagga ctctatgaat atgctcaaag tgaacctcat 600  
tggtgtgatc caggtgacct tgagcatgct tcctttgggtg aggagagcac ggggaagaat 660  
tgtcaatgtc tccagcattc tgggaagagt tgctttcttt gtaggaggct actgtgtctc 720  
caagtatgga gtggaagcct tttcagatat tctgaggcgt gagattcaac attttggggg 780  
gaaaatcagc atagttgaac ctggctactt cagaacggga atgacaaaca tgacacagtc 840  
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acagcagtat tttgatgcc tttacaatat catgaaggaa gggctgttga attgtagcac 960  
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aagaaatatg ttggtgtgtt tgtccttact tgaaatgggt ctgtattatg gtacttttaa 1560  
taaataatttg atttttcttt ctcttcaaaa aaaaaaaaaa aaaaaaaa 1608

<210> 317

<211> 1057

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (958)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (966)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1035)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1053)  
<223> n equals a,t,g, or c

<400> 317  
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cagccttttag cttattcctc cttcaataca cgggaccttt ggtaatttg gggcaggaaa 120  
actcttaaag taatctctct tgggcagagg ccttattgca ccagagggaa aaagtatata 180  
cttcatttgc tgttactcca gttatgcctt aaattcattt gcttggtaat cctatcaacg 240  
rgcactaact tcttagtata ctttaaacac ttagttgggt aacactgaga ttttggtgtc 300  
ctttattttt tgctgagatg gagtcagtca gatgttagtc atagctaaca ccgaatttgt 360  
gttgctcattt agacagttac tgattcgatc tgctttatat atgagaacgt atttttaact 420  
attccaagaa ggaagaggta gctaaatgta atccccctct cctatcccc cagaaaactg 480  
aactgtaagt tctaggtaga ctaattggga gcagacacgg agtttttagat gccttagcca 540  
aaccacagcag aaacctttca cacagccact catcgtaaga aacgcagatt tttctcttct 600  
catgcttgct tctgggtccc tgcatttgta gtgacagaac tttcactagc aggatataaa 660  
gaaagtaatt atgcttgagg tccctcttta ctgggtttga gttaggtgca taacatggaa 720  
aggagtgggtg ccttcaaagt aatgtgacca ctccgtattg tggagtgact tccctagggc 780  
atcctataca tcctaccaca gaaggccaag ggacagagca ccaacttcag tatccaagaa 840  
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gccgtcttcc ttctggctta gcagggtgctg cagctgtact ctgcactcct gtctgtgnag 960  
cgtganyagg gaaaatgagg agtggagtct atttccaaaa aaaaatgtgg atggagtgtt 1020  
ttccttaaag tggcnttcat tggcccaatt cntttt 1057

<210> 318  
<211> 1336  
<212> DNA  
<213> Homo sapiens

<400> 318  
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tatagagatt tgaaactgga caatgtatta ctggactctg aaggccacat taaactcact 180  
gactacggca tgtgtaagga aggattacgg ccaggagata caaccagcac tttctgtggg 240  
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tggtgggctc ttggagtgct catgtttgag atgatggcag gaaggtctcc atttgatatt 360  
gttgggagct ccgataaccc tgaccagaac acagaggatt atctcttcca agttattttg 420  
gaaaaacaaa ttcgcatacc acgttctctg tctgtaaaag ctgcaagtgt tctgaagagt 480  
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tttactaatg aacctgtcca gctcactcca gatgacgatg acattgtgag gaagattgat 720  
cagtctgaat ttgaagggtt tgagtatatc aatcctcttt tgatgtctgc agaagaatgt 780  
gtctgatcct catTTTTTcaa ccatgtattc tactcatggt gccatttaat gcatggataa 840  
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caatatcttc tcttgtagac tatatgaatc aattattaca tctgttttac tatgaaaaaa 960  
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cactgcatta aaaaagtatc tggtgcatta aggcacatag tgggattaca tcataaacct 1140  
cccataattt ttgtcattct gtgttaaadc atttcagggt ttaattttga aataaaagat 1200  
taatataaaa tgcaacaact ttttatatta cctattagtt ttggagttct ttatgtttta 1260  
aaattcaggt gtaaatttta ttgccttgga taaataaatt attgatcctt ttttaaggcag 1320  
cagttattaa attggt 1336

<210> 319

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<400> 319

aattcggcas aggggcgctt ctgaaactca tctttcctga tggagcgttt gaaagtgaga 60  
atcgagcatt gatcaatgtc caaatgctga acaattcagg attcgctagg ggaattattg 120  
aagagttcca aaataataat gaccttgagt tacaacaaaa atgtattaat gtactaagca 180  
catatgctat gattcaggga caaattgatg caaataagga gattgggcag ttcttcatac 240  
aaactttaac acagttgaat gttcgccctg aaattttgat agaaatgaca aattcgcttt 300  
tccaatttac ggggatgcct cttacggcta taatggaacc atwtttgtaa ggggtgggtt 360  
tttatcyatt cttaaargacc cagttgtacc caatttgrgg cmgcmattcc aaatgggtgg 420  
ttaaaaccaa atncccganc twaargaagk tgccctgggt gctttactac gttgggtagt 480  
ttcatcacta caaatg 496

<210> 320

<211> 1756

<212> DNA

<213> Homo sapiens

<220>



<221> misc feature  
<222> (1718)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1721)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1733)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1750)  
<223> n equals a,t,g, or c

<400> 320

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gcgggggtgt ggaaccaggg cccccggggg ctgccgtcgc cccgtcgccc gccccggccc 120
cgccgcctgc ccctgatcac ctgttccggc ccatcagcgc cgaggacgag gagcagcack 180
ccaccgagat cgagtcgcta tgcataaact gttactgcaa tggcatgacg cgcctcctgc 240
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gctggaacaa cacggagatc cagtcggcag gcaggatcca ggaccaggga gtgcgctaca 360
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gaagggcaaa caaagatgct acagctgaaa gaattgatga gttcattgtc aaactgaagg 600
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ggacccgaca gcaggaagag wtgctggggc ttcaagaaga agcaccagca gagaagccag 780
aagaggaaga tctcagaaat gaagtgtctc mgttcagcac aaaytgccca gaatgcaatg 840
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tccagcgtg ctctttctgt aggttattta ttagtattgg atgaaggcga aggctgggag 1560
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gtgcacactt tctaaacagc ttgtgatgca agtgtgagcc tattgtgtta cttgacctta 1680
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ggcttgactn gctcaa 1756
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<210> 321  
<211> 588  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (512)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (543)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (567)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (574)  
<223> n equals a,t,g, or c

<400> 321  
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tagtcccagc tactcaggag gcttgggttg gaggattgcc tgagaccagg aggttgaggc 180  
tgcagtgagc cgtgatttca ccaccactcc agcctgggtg agaaagcaag accctatatc 240  
aatgaaaaaa aaaaaaaaaa aagaccagct ttgcagccag aagccagagg ataccaggg 300  
acagtagggc tcccagggtg ctggttctca gcacaccttc catgaatctg cttgctgctg 360  
cttcagtgtg gtggccatcg tgctgtgtga caaaccaggg ctgttcacag yttcctcagc 420  
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<210> 322  
<211> 738  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<400> 322  
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actaccactt gccagcaaca aaaggaagag ctgctccctg cacaggatat caaagctctg 240  
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aagaaaggca gctgtgagag agatgctcaa tatgccccag gctatgacaa agtcaaggac 360  
atctcagagg tggtcacccc tcggttcctt tgtactggag gagtgagtc ctatgctgac 420  
cccaatactt gcagaggtga ttctggcggc cccttgatag ttcacaagag aagtcgtttc 480  
attcaagttg gtgtaatcag ctggggagta gtggatgtct gcaaaaacca gaagcggcaa 540  
aagcaggtag ctgtcacgcc cgagactttc acatcaacct ctttcaagtg ctgccctggc 600  
tgaaggagaa actccaagat gaggatttgg gttttctata aggggtttcc tgctggacag 660  
gggcgtggga ttgaattaaa acagctgcga caacaaaaaa aaaaaaaaaa aaaaaaaaaa 720  
aaaaaaaaag gggggggg 738

<210> 323  
<211> 876  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (759)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (761)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (786)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<400> 323

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ncgcgatcgg tgccgcggct tctgcagga agtggctacg cgcgtccctc gggaaaagca 120
ggctttgcaa attggcagcc caagtytcag gggcctgtgc agtgactgat cattaccaac 180
atttcgaagt gagagatgtc acataaagag cgtcatttcg agcttctctt gaaaagttgt 240
aaggtgagct accctgggac tgtattcctg aatggcaatg tgatggcaga gtcctgcagt 300
attaccacct gaggacttgt gcaccagggt tcccacccac ccacttcagg cccttggttc 360
agggatgtgc ccgtcatgga aataacagggt gctgtggctc tgctggtttt ggctttcctt 420
ctctgtaacc ttccaatata tttctccttc caggtagtgt aaaccactta gtaattaatt 480
agttaataaa ttcattctcat cagcactttt aaaataatgt gctaggccac actgtcatgg 540
acccagata tacagcagca aacaaagcag ccatggtacc ttccctcagg gagcagtcag 600
tccagtggag gagtcagata tgactcacca cacagatcga aaaatctyca caaattatga 660
gaagaatgct gagggagaa agaacatagg tggaccgct gctgagcca ggcttacttg 720
cagagatcta tgctggccag gccctgtgct aggcagcana ngacatggaa taaaatcaaa 780
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<210> 324

<211> 1322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1309)

<223> n equals a,t,g, or c

<400> 324

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agattatacc aaaatagaga aaattggaga aggtacctat ggagtttgtt ataagggtag 180
acacaaaact acaggtcaag tggtagccat gaaaaaaatc agactagaaa gtgaagagga 240
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tctttccatg gatctgaaga aatacttgga ttctatccct cctggtcagt acatggattc 420
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ct 1322

<210> 325

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<400> 325

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accagaggagc tctagttctk gccctactc tccaactcac ttcctctctc cactactcca 180  
ggcaggttca gtcttcttgt tagtcccaga agctctgtgc tcatcccctc catccgagcc 240  
tccatattgca ggttcctgca aagcttggtt atctgcagat ggaagcagcc aggactgaga 300  
tcatagaatg gggacatacc agcctaggtc aaggagggca gt 342

<210> 326

<211> 3690

<212> DNA

<213> Homo sapiens

<400> 326

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tgcggtcgaa gaaggggacg ccgacaagag ttgaagtatt gataacacca aggaactcta 180  
tcacaatttg aaaagataag caaaagtttg atttccagac actacagaag aagtaaaaat 240  
gcgtccaatg cgaatttttg tgaatgatga ccgcatgtg atggcaaagc attcttccgt 300  
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cgctcaaagc tgtgtccgac tggatagacg agcaggaaaa gggtagcagc gagcaggcag 420  
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<210> 327

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (701)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<400> 327

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gcaccacgcc ggggggcacg ctatacgcca ctacccccgg aggcaccagg atcatctacg 180  
accgaaagtt cctgctggag tgcaagaact caccatttgc ccggacaccc ccctgctgcc 240  
tccctcagat tcccgggggc acaactcctc caacagcccc tctctccaag ctggaggagc 300  
tgaaggagca ggagacagag gaagagatac ccgatgacgc acaatttgaa atggacatct 360  
aatccagtg agatgacctg gcatgtggag ttacagaggg atccctcatg ccactgctgc 420  
caccacctct tcctggggca tccaanagcc agctggcctc atctaattctg gaagggagtg 480  
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aacttgccaa gcccttaact ctacttcctc ttcagtctgt ggtactcctc ctaaccctaa 600  
accctctatg ctcaggggct ggaactgggg aatggagtaa gtcaccttct gactgcttag 660  
taaacattca aagaaaaaaaa aaaaaaaaaa aaaaaaacct ngggggggnc cccgtaccc 719

<210> 328

<211> 989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (943)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (968)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (982)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (984)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (986)  
<223> n equals a,t,g, or c

<400> 328  
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agtgactgca gggaagctgg cacgggcacc ggccgaccct gggaaagccg gggtecccg 120  
agttgcagct cccggagctc cggcgggcgc tccaccggcg aaagagatcc cggagntcct 180  
agtggaccca cgcagccggc ggcgctatgt gcggggccgc tttttgggca agggcggctt 240  
tgccaagtgc ttcgagatct cggacgcgga caccaaggag gtgttcgcgg gcaagattgt 300  
gcctaagtct ctgctgctca agccgcacca gagggagaag atgtccatgg aaatatccat 360  
tcaccgcagc ctgcgccacc agcacgtcgt aggattccac ggctttttcg aggacaacga 420  
cttcgtgttc gtggtgttgg agctctgccg ccggagggtct ctcttgagc tgcacaagag 480  
gaggaaagcc ctgactgagc ctgaggcccg atactaccta cggcaaattg tgcttggctg 540  
ccagtacctg caccgaaacc gagttattca tcgagacctc aagctgggca accttttctt 600  
gaatgaagat ctggagggtga aaatagggga ttttggactg gcaaccaaag tcgaatatga 660  
cggggagagg aagaagaccc tgtgtgggac tcctaattac atagctcccg aggtgctgag 720  
caagaaaggc cacagtttcg aggtggatgt gtggtccatt ggggtgtatca tgtatacctt 780  
gttagtgggc aaaccacctt ttgagacttc ttgcctaaaa gagacctacc tccggatcaa 840  
gaagaatgaa tacagtattc ccaagcacat caaccccggtg gccgcctccc tcatccagaa 900  
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tctttcgncc caaaaaaaaa angngnatt 989

<210> 329  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 329  
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atgctaaata aagtacttca aactaggaat gtaaacctta taaagaagac tgtattaagg 120



atgcccctgc atactattat tccgttggtta caagagctta caaagagggtt acaaggacat 180  
cctaatagtg ctgtgctaata ggttcagtggt ctaaaatgtg tgttaacagt tcatgcatca 240  
tacctgtcca cggtgcctga cctgggtaccc cagctgggga cactctacca gttaatggaa 300  
agcagagtca aaacttttca gaaactttca caccttcatg gaaagcttat tcttctaatt 360  
acacaagtaa cagcatcaga gaagacaaag ggagcaactt cccctggaca gaaggcaaag 420  
ttggtgtatg aagt 434

<210> 330

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<400> 330

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ttaaccctgc agtccaccaa cacgcacacg cagagcagca gctccagctc tracggaggc 120  
ctcttccgct cccggcccgcc ccactcgctc ccgcctggcg aggacggctc tgttgagccc 180  
tatgtggact ttgctgagtt ttaccgcctc tggagcgtgg accatggcga gcagagcgtg 240  
gtgacagcac cgtaggcagc cggagaatgc agcccaagca gggcctggca tggggcagga 300  
caggggtccag ccttttccta acatctgcct gtgccacaac ggccagcagg tgccccatcc 360  
tctgcccaca gcaractctg tcccatggct ctccgggcag tagagtgtgt gagtgcagac 420  
tggacctgtg gttcatacct tgtcaccacc cgggaagctg aaggccactt yctcccagat 480  
ggcctcagca ggaccatcgm cctttctcag agcagagggc caggtataga aaccgcagtg 540  
ggcctgcaag ccgcccaggs ctycccagca gcctcctaca gagcaggaag agggcgccct 600  
gttgaaccct gagtgtttgc agggccagca gaccctgctg ttnccaagcg caccctngct 660  
ttcgaacatt aacttcctta acttngggac agtagg 696

<210> 331

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 331

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cagcctgccc ggagaggacc tgagggcccg tkttagctac aggctgctgg gggtcattctc 120
actgctgcac ctggtgctgt ccatggggct gcagctgtac ggtttcaggc agcggcasga 180
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agagccgttt ccagaaaccc cctgtgcamc ctgtgcctgg aggagcgcag gcaccaaca 300
gccacgccct gcggccamct gttctgctgg gagtgcattca mcgcgtggtg cagcagcaag 360
gcggagtgtc ccctcctgcc gggagaaagt tccctcccca gaaagctcat ctaccttcgg 420
cactaccgct tgaaccggcg cccgggttgg gccttgagaca caaattgaac tctacgggaa 480
ttctgaaacg cccaagattt attctccagg atttaacctt gcttgccaaa antttaaaac 540
n 541
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<210> 332

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 332

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ggnacggaaa agcgcgagaa gcggctcggt tcccaccacg gagaggcggg agtnagtcaa 60
ctgacaagcg ctggggacag tggcgtcctt gtcttgccct tgctgctccc gccccgctct 120
tccctggctg ggctggcgga ggccttgctg atgaacctga ctgaggggtcc cctggcgatg 180
gcagaaatgg accctacaca gggccgtgtg gtctttgagg acgtggccat atatttctcc 240
aggaggagtg ggggcacttg atgaggtcag agattgctgt accgtgatgt gatgcttgag 300
aattt 305
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<210> 333

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 333

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ggtttgccaa aaantgtttg tacctctggg ccatattgca gaaccctgcc cttctttgtt 60
gactgaggaa agctcgctcc ctgcccaggt ttttcattgt tgatcgaaat taacaccagg 120
tggtgaatag agcccctsc t aaggttgctc aggataaatc atttattaaa taggtctgct 180
tatcaggagg ggcgtgaagg ctcccaaaaag gaaatgctgg cacctgggcc cagaagccag 240
ggccttytaa ctcttggggt tgattttctc agtgaagttg caccctacaa agggaatatg 300
gccmaagcgg gcacttcaac tggaaggctg rtatcaggcg rttagacagc catggcattt 360
ctggcgttta gtctgggaat gggttggtag aggaggtggg acttatatng agggacttac 420
cagttccccg tttggatttt ggatg 445
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<210> 334

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<400> 334

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taaattttta aagatgatgg actagactca agtatttttn aggactgtcc caatcataag 120
tctgaaggat ttcagtgctt atcataacat ttgacataca gttggcactt ggtaggtact 180
gaatcaatga ataggagtta ttggttgcc t attcagaggc ttgtgggagt tgcatcccc 240
attgcagaga gccagttggt gaatcagcaa ggtttccatt tatgctgctc ccctccaccc 300
agtcccctgg agggact 317
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<210> 335

<211> 1524

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1511)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1523)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 335

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atctgtatta gccttgtgcc ttctcaattt ggaagtggaa actttgaaat ctgttgaatt 120
actggaaatt ctcttgctag ttaaaaaaca ttccaagatt aatgacactg agttcttcta 180
ctggagagag ttggtttcta aatgcctagc cgagtattct tctcctgaat gttgcaaacc 240
agatcttaag aagttggttt ggatcgtttc aaggcgcaca gcccagaacc tccacaacag 300
ctactatagt gttcctgagc tgccaacgat acctgagggg gggttgtttg atgaaagtga 360
aagtgaggac tcttgtgaag atatgagttg tggagaggag agtctcagca gctctectcc 420
cagtgatcaa gagtgcacct tctttttcaa cttcaaagtg gcacaaacac tgtgctttcc 480
atcttagaaa tctgattgtt ctgtcagaat ttatatattac aggtttcaaa gcaataaatg 540
ggggaatagg tagtttcctg gtttagcccc catctagtca ggaattaata tactggaata 600
cctaccttct atttgttatt cagatcagat ctggcctatt ttcataattta tcctaagcca 660
tcaaattggg tagtgctctt taaaccatta acagtacttt agacattggc actttatttt 720
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cttttcaaga tttttaaaaa taactagtgt agcttatctt aaacatttta taaaaccttc 840
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ccttaatggt ttatcataga tttcacccctc ccccttctc agaagagtga gtatgctctt 960
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&lt;210&gt; 336

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

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<213> Homo sapiens

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<211> 2639

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1651)

<223> n equals a,t,g, or c

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<210> 341

<211> 1824

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1807)

<223> n equals a,t,g, or c

<400> 341

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<210> 342

<211> 4531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 342

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<211> 584

<212> DNA

<213> Homo sapiens

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<210> 344

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 344

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gaatgggaat gtgcagtgtt ttatgtttgg ggagttggag cagggtatct tttcatcaat 720  
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<210> 345

<211> 3740

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (223)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 345

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<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<400> 346

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<210> 347

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (769)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 347

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atatatggtg tggacagata acttgcattg ggtttgcaga aaactctgaa aggggtyaaa 720  
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ta 782

<210> 348

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 348

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<210> 349

<211> 2356

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350

<211> 1219

<212> DNA

<213> Homo sapiens

<400> 350

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<210> 351

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (397)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (405)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 351

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&lt;210&gt; 352

&lt;211&gt; 1283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 352

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&lt;210&gt; 353

&lt;211&gt; 3229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 353

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<210> 354

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 354

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<210> 355

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<400> 355

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<210> 356

<211> 1695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 356

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<210> 357

<211> 928

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<400> 357

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<210> 358

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1374)

<223> n equals a,t,g, or c

<400> 358

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gggctttgct atttcaacta tcacgatgtg ggcatctgca aagctgttgc catgctgtgg 540
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<210> 359

<211> 4152

<212> CNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 359

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&lt;210&gt; 360

&lt;211&gt; 1156

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<400> 360

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ctgcccgcgc gccaccccc aagctggagc ccaaggagga atctcccacc cggatcaacg 480
gctctatccc cgscggmccc aagcaggagm cctgcgcccc gcacaacggc tyararcccg 540
ccagccccaa acgggagcgg cccaccagcc ctgcccccca cagaccccc aaaagggtga 600
aggccaaggc ggtccccagc tgaccagggt gcttggggag ggtggggcct tttgtagaaa 660
ctgtggattc tttttctctc gtggtctcac tttgttactt gtttctgtcc cygggagcct 720
cagggtctr aragctgtgc tccaggccag gggttacacc tgccctccgt ggtccctccc 780
tgggctccag gggcctctgg tgcggttccg ggaagaagcc acaccccara ggtgacagct 840
gagcccctgc cacaccccag cctctgactt gctgtgttgt ccagagggtga ggctgggccc 900
tccctggtct ccagcttaaa caggagtga ctccctctgt cccagggcc tcccttctgg 960
gccccctaca gccacccta cccctcctcc atggggccctg caggagggga gaccacctt 1020
gaagtggggg atcagtagag gcttgcactg cctttggggc tggagggaga cgtgggtcca 1080
ccaggcttct ggaaaagtcc tcaatgcaat aaaaacaatt tctttcttgc aaaaaaaaaa 1140
aaaaaaaaaa aaaaaa                                     1156
```

<210> 361

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 361

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tgggaagtga tatttgggag ctaattgagg cctanggtga aaaaggaaat agcttcagat 60
waaaaytaga aagaagcttt ctgagaaact gctttgtgat rtgtgcattc atctcacaga 120
ggtaaattctt tcttttgatt cagcagtttg gaaacctggc taacatgggtg aaccgggtgt 180
ctactgaaaa tacaaaaaat tagccagggtg tggtaggcaca atgctgtaat cccagctact 240
caggaggctg aggcaggaga atcgcttgaa cccgggaggt gggagggttac agtgagccaa 300
gtttgtgcca ctgcattcca gcctgggctt atagagtggg acttccgtct tcaaaaaaaaa 360
aaaaaaaaaa nctngn 376
```

<210> 362

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<400> 362

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ccctaagcca tttttgaaga gaggacctgc cctagcttta tgacttaaga ccatgactat 60
gcatcttaag ttgcccctct gactgggcag ctttctcctg aacacagtga ggaatgctaa 120
gttacatggg ccagtaamtg agtggatacc ctgagccccc gcatccact ggctgctatg 180
cagggaataag tccatgcacc tgtggatggc agtggttgag ctggttctct ataaaagtat 240
ccagtgccca gacctttgtt cacacatgca tgtaaattta ctgggaaaac tctagagacc 300
aatgttcttt cttccacaga aatctggcct agcagtctat tcttaaattg ctctttgtgt 360
gtaagacaca tctgtttgat accccactct gccctgactt ttaggcaaat ccgttaggac 420
aggaaccact attttctttc cttccctttg aatcatcttt taaagcagca gaggcaatgt 480
tkggcagagg tccacattgg gaaagttagt gcatcanga 519
```

<210> 363

<211> 1385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<400> 363

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acgggtcggat tcccgggtcga cccacgcgctc aggacggctc cggaccgcgc agttagcgcc 60
gcctggcctg ggccggaccc ggtcaggggt ctcaagctgt cgtccctatg gggctgtgtt 120
ttccttgctc cggggagtc gcgcctccca cgccggacct ggaagagaaa agagcaaagc 180
ttgcagaggc tgcagagaga agacaaaaag aggctgcac tcggggaatt ttagatgttc 240
aatctgtgca agaaaagaga aagaaaaagg aaaaaataga aaaacaaatt gctacatccg 300
ggcccccacc agaagggtgga cttagggtgga cagtttcata aagcataaca tgagtagaag 360
aatctactgc caataactgt ttattatctg caatcaagtg ggcttcatca atttaatttc 420
ttctctttga gtaaatgaag attcagactt tgtaatatta ttgcccttaa gtgcaatgct 480
aaaaaaacgt tgattttcaa gcttagagaa tggctagact ttctattaaa tactgatttt 540
cctacatttg ctcttctgca gttagtgggt gatttgctat ttttcttagt agttaaaaaa 600
tggaactaaa tagtgaatat acatacactg catgtaaaca ttctgcatat acctctaaga 660
ttaaaattcg cagttgtctt ttcatccttt ataaaatgat ctaactactt atatttgtgc 720
tgcacgcgt tacatctgtt tttatttcac tatgaagatg tttgattaaa cttatggact 780
tagtgccctt aaactgatca tcaggggagaa tcttgaaaaa atcatttgaa gggctgatgt 840
gaaggagcac tgtaaatttt tataacttag taatgagtat tcttaggcag atgtaaaatt 900
ttttccaatt tatttttatt tatgtagctt ataaaattaa cataccctgt tttactttat 960
gataaaggat tttttgtttg ctgaatttaa aattatatat tagtgatacc atcagagggc 1020
agtgatgttc tattgtatat taaattcagc tctgtaagga tctttgtagt aattgaatga 1080
gttaaactaa taatctggat gggttataat gagtagtaat atatttgtcc atatttcata 1140
agtagtgkta atcttgkga cttattagag gaacgatcat aaggatttat acaggatgtg 1200
gaaactgcgg aaggcaagtt atkgaatgta tgraaaaaaa catgtagggg actgkacttt 1260
accaaaaggg tctacttcca ggatattaaa aatattaggg gtaattctat taccatgccn 1320
aggtccttaa cccttaaccn ttttgttccn tagggaaccn ggattttatg gccttttttg 1380
gtttc 1385
```

<210> 364

<211> 977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

&lt;400&gt; 364

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tttccggata tttttggtgg aattccccc aaagggaaatc cacagggctg ttccgaaata 120
ttgggggaac actgtttttc ctgcatcatc ctgcatttgc tccccaaagca atgtagaggt 180
gtttaaaggg ccctctgctg gctgagtggc aatactacaa caaacttcaa ggcaagtttg 240
gctgaaaaca gttgacaaca aagggccccc atacacttat ccctcaaatt ttaagtata 300
tgaaataactt gtcattgtct tggccaaatc agaagatatt catcctgctt caagtcagct 360
tcagaaatgt tttaaaaggg acttttagctc tggaactcaa aatcaattta ttaagagcca 420
tattctttta aaaaaaaaaa gctggataat attmtctgta atattttagt cctttacaag 480
ccaaatacat gtgtcaatgt ttctagtatt tcaaagaagc aattatgtaa agttgttcaa 540
tgtgacataa tagtattata attggttaag tagcttaatg attaggcaaa ctagatgaaa 600
agattagggg cttccacact gcatagatta cacgcacata gccacgcata cacacacaga 660
cacacagatg tggggtacac tgaacttcaa agcccaaagc aatagaaaca cattttctgg 720
ctagcagaaa aaaacaaaac aaaactgttg tttctctttc ttgctttgag agtgtacagt 780
aaaagggatt ttttcgaatt atttttatat tatttttagt ttaattgtgc tgtcgttcat 840
gaaacagagc tgctctgctt ttctgtcaga gatggcaagg gctttttcag catctcgttt 900
atgtgtggaa tttaaaaaga ataaagtttt attccattct gtgtgaatgg tttgagcagt 960
gnjaaaagga caaaaaa 977
```

&lt;210&gt; 365

&lt;211&gt; 964

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

```
gttcggcaca gaaagggaga tgggtagcat cattttgatt aacatttggg gcctgatagg 60
ggaaatggtg aagcaatgga aaagaacaga caactaatga tttgcttcta tgtccagaat 120
attttacctt taaaaaaatg tcattggcac cataaataag gactgtgaga gactgtttta 180
aagctgtgaa agtctgaaac ctataagcca aggtgttccc tgcctaaact tattgctgtt 240
cccacaaagg actaagcctg ttcataagtt accaaagttg ccatttttga gatggaaatt 300
gacgaggagg gaaggtcttt tattggagag tatacagtac aagcagatca ttctgcctta 360
gaggtgctaa ttcccgaat tagaagaccc tttcttttcc agtaacgaag ttataaatat 420
cagcttgctt atccaagcca ctggctgagg tgtaggaag aggaagaggg tggtagagga 480
ggtaagacag tagggaaaga caagggccca tgctcttagt ggggaaaact cttggagccg 540
tttactttga gctttgaaca ctgaaacat tggtggcagg gttcagtcac tgacagcaca 600
agtttcactg aattgatcca agagttagt gatttcaaaa gccttggtct caggagaaga 660
ttaaactttc atattgggca gtggttcact ttaaaacaca cacatacaca cacaaaacaa 720
ttttttaaga aatcctaata agtaacatac ccaaaatgct ctgtcttgag tcatgagaac 780
catcagttct tgatattgtc tagacttgca tctagagcta cgttgtaaaa ttcttttagg 840
catgtgttag atttctgtgt aaactttgtt taaatgtaaa cttcatacta cattgtcagt 900
ttttgtctta ataaaactat agatttataa aaaaaaaaaa aaaaaccgcg gggggggggc 960
ccgg 964
```

&lt;210&gt; 366

&lt;211&gt; 1297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

```
gtggcttacg cctgtaatcc cagcactttg ggaggccgag gcaggcggat cacgaggtca 60
ggagttcgag accagcctga ccaacatggc gaaacccgct ctctactaaa aatacaaaaa 120
```

ttagctgggc gttatggcgg gcgcctgtaa tcccagctac ttgggaggct gaggcagaag 180  
aatcgcttaa acccaggagg cggagggtgc agtgagctga gatcatgcca ttgcactcca 240  
gtctgggcga caggagcaag actctgtctc aaaaaaaaaa atcattcttt ttagtcttag 300  
cacctactta aggatccact tttagggctc acccacattt gtttctagat ttacccttgc 360  
gctagagtaa gcactttatc tccagaactg agagcaaagt taacaaatct cacccttct 420  
ctcctgcaaa ttagtggaca gactccctgg aacatgtttg gggcttccac ctagggccac 480  
ctagtggat ctctgggtct ttacttggtc agatgtttat tctacattgt tccccaggaa 540  
cagagtatga gctcattgat gcagaccgat tctaattgcc aggccctaat ttgcagacta 600  
actctcataa taaacagagg cccatagttg tttatgaact gcttatccct taaaggagca 660  
caagaacccc tccctgccct ccttgggcac cctgcctcca ggagatggag gcacgtgata 720  
agacaaaaga ctgcaccaac tcaccctgac acagttacat agtcactgag agtggggaag 780  
atgggacagc ccacatgctg cataagatgg gccttatgca gcaggcccag gtcgtcatta 840  
aggagtgacc cctttcctgt aacctgcact ttgggatggt agaagtttct ttacctgctg 900  
acaggtttgg tggcactgct ggttaccctt gggccctgaa tggagctaaa atcacatttg 960  
gtaccagcag cacctatccc aagtgtgatc cttcatccca aactccctc ttggagctgt 1020  
tccctgggta gagctagcat gccagcagct tctgcaggct ccaaaccag gccagaagcc 1080  
agaccaggc ctgctgcctg catctgcatt ccctccttcc agtgttcctt agaacagaca 1140  
tttaggtatc tcaggctcctt tctaagtgtc cctttcctat gtatgcattt cctttttttg 1200  
tctttactat gcacttttagc ttataaagcc aattaaaaac gatgattgag aaaaaaaaaa 1260  
aaaaaagggc ggcgctctta gaggatccaa agcttac 1297

<210> 367

<211> 785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<400> 367

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agcccctgga ggactcgact cactgggtgc cgatttaggt ccggagaggc gttgtgaggt 120  
gagctttttc agaagcgcga tcccaggaca cgtcgggaag caagcatccc cagagctgct 180  
tggaagagg accaaagacg tctaaaaagt catttggaat tatctctaaa tatttggtac 240  
catgtataag ctgctaaaga gaaattgggc ccaacaaaac taattgaata attgaggcag 300  
atttgtgtgt atcatcaaat tctatccaga agttgaagaa tctgaattta aagattgtgt 360  
gcatttaata agaggatgac ctttcagttt aatttcacta tagaagacca tctggaaaat 420  
gaattaacac ccattagaga tggagctttg accctggatt cctcaaaaga gctgtcagtc 480  
tcagaaagtc aaaaaggaga agagagggac agaaaatggt ctgcagaaca atttgacttg 540

cctcaggatc acttgtggga acataagtca atggaaaatg cagctccctc tcaagacaca 600  
gacagtccac tcagtgcagc cagcagttca aggaacttgg gagccacatg ggaaaacagc 660  
cctccttgag agctggccaa aggrgcmgtc tatgccttaa aggnntttaaa gaagrtgttt 720  
aggaaaatwa aagtycttag gaaacnttta ccnggggtttt ccmgyctgtt taagttwttc 780  
rgtta 785

<210> 368

<211> 920

<212> DNA

<213> Homo sapiens

<400> 368

ggcagagctc atgccatcac agtatctgtt gcaaatraaa aggcactagc taagtgtgag 60  
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aaggggtgata ttataaaaac aaggggtggt ggacaatctg ttcagtttac tgatattgag 180  
acttttaaagc aagaatcacc aaatgggtgtt ctgtggctgt ggagatgaga gcaggatccc 240  
agctgggacc tggatatcag catcacgcac aacccaagcg caaaaagcca tgaactgaca 300  
gtcccagtac tgaaagaaca ttttcatttg tgtggatgat ttctcgaaag ccatgccaga 360  
agcagtcttc caggtcatct tgtagaactc cagctttgtt gaaaatcacg gacctcagct 420  
acatcataca ctgaccacga gcaaagcttt ccctatgggt ccaaagacaa ctagtattca 480  
acaaaccttg tatagtgtat gttttgccat atttaattatt aatagcagag gaagactcct 540  
tttttcatca ctgtatgaat tttttataat gtttttttaa aatatatttc atgtatactt 600  
ataaactaat tcacacaagt gtttgtctta gatgattaag gaagactata tctagatcat 660  
gtctgatttt ttattgtgac ttctccagcc ctgggtctgaa tttcttaagg tttataaac 720  
aaatgctgct atttattagc tgcaagaatg cacttttagaa ctatttgaca attcagactt 780  
tcaaaataaa gatgtaaatg actggccaat aataaccatt ttaggaagggt gttttgaatt 840  
ctgtatgtat atattcactt tctgacattt agatatgcca aaagaattaa aatcaaaagc 900  
actaagaaat amaaaaaaaaa 920

<210> 369

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<400> 369

cctagaacgc tttgcgtccc gacgcccgca ggtcctcgcg gtgcgcaccg tttgcgactt 60  
ggtacttgga aaaatggaca aggattgtga aatgaaacgc accacactgg acagcccttt 120  
ggggaagctg gagctgtctg gttgtgagca gggctctgcac gaaataaagc tcctgggcaa 180  
ggggacgtct gcagctgatg ccgtggaggt cccagccccc gctgcggttc tcggaggtcc 240  
ggagcccttg atgcagtga cagcctggct gaatgcctat ttccaccagc ccgaggctat 300  
cgaagagttc cccgtgccgg ctcttcacca tcccgttttc cagcaagagt cgttcaccag 360



acaggtgtta tggaaagctgc tgaagggttgt gaaattcggg gaagtgattt cttaccagca 420  
attagcagcc ctggcaggca accccaaagc cgcgcgagca gtgggaggag caatgagagg 480  
caatcctgtc cccatcctca tcccgtgcc cagagtggc tgcagcagcg ganccgtggg 540  
caactactcc ggaggactgg ccgtgaagga atggcttctg gcccatgaag gccaccgggt 600  
ggggaagcca ggcttgggag ggagctcagg tctggcaggg gcctggctca agggagcggg 660  
agctacctcg ggctccccsc ctgctggccg aaactgagta tgtgcagtag gatggatggt 720  
tgagcgacac acacgtgtaa cactgcatcg gatgcggggc gtggaggcac cgctgtatta 780  
aaggaagtgg cagtgtcctg ggaaaaaaaa aaaaaaaaaa aagaaaaaaaa naaa 834

<210> 370

<211> 947

<212> DNA

<213> Homo sapiens

<400> 370

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tccccagtc caggggcagg agagaaatct gtaaaggac agatgcacca tctttatttc 120  
aaaagaaaaa gctccctcag attgtgttac taggagtctc ttttgtgaca tttactgasc 180  
tttctcccca atcttacctt cctattggct actttttaaa taaaaataaa cattttaggc 240  
taatatgaca aaaatgagat aaaatcttaa aaacattgta ctagtgtaca gttactaaaa 300  
tgtgcttact acaaaacagt aaaatatttc actctgtaaa tcatcactaa gtagttattc 360  
tgtcctgttg attatgagcc tccaaaaatg tttaatgctt gamggatggt ttgggaggca 420  
gggaatcctt wtcttaaaac ractktaatg aggcataatg tacatatcat aaaacaccca 480  
tktcaagtgt acatytcagt gatttttagta acttccctca gtggtgtagc tgtarctatt 540  
actcagttyt agawcatktt tatcccccca ataagatctt catgctcwkt tacagttaac 600  
ctgtgcttac cccagcaaca ctaatctact tctctataaa ttgcctttct ggcagtcaat 660  
catggaatca tcatagtggc cgtggctctg cttgtactag aatgtttgag gttgtcagca 720  
gtacgtctgg actgtcgata tgccgggaac ggtgtgtggc cattgctgcg ggcttacatg 780  
gtcatctgtc tacgactcgc gtgctatgga cgtggtcaaa ccacgggag cgtctccgcg 840  
tcgagttttg cttgtgtagg ggcactggtg cagtttggtg ggagaggccg gtccccgggg 900  
aaactctgga gactttgcga gagccgctct agcgcacctt ggtggct 947

<210> 371

<211> 2340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2301)

<223> n equals a,t,g, or c

<400> 371

ggcacagcag gaactccagg ttctgctggc cgtggcatcc tctctccarg tctgctccct 60  
taccggagct asgataasgt agcatgartg acacctgaga ttagaggctg gggctcactg 120  
caggctgtgg agaggctcatg ctgggtccaca ggaacacttg gcagtgtctt cgtagacccc 180

tcggtgatgt ggaatggaca ggtgcctcgc aagagagcaa gcacgttcat aacaaaacag 240  
caacacaaaag acatgttaag catgtttatt tatttgctg tttttgtttt tttacttgag 300  
ctgtgggtcac agctgnccag gtacctaac aagtcagttg ggtacagcag gacacgccac 360  
cattccaggg tagctggtac cgccagaaac aggagtgggt cttgtcctgt tgcaggcaca 420  
ctgcagtggg tttcctgcag ctctccaaca aacgcctgag tcacaggcca gagctgcctt 480  
ggatgtttgt taagtccaaa acttcttctc tgggctacct atcttccttc atgaagcagg 540  
tgctcaggac ccggaagaat catctacctc ccagctttgt gagacagaac caagtaaaag 600  
gaaacatgct agaaaacgtg cctagagaag acacttcaac ctttgcctta tccaaccctt 660  
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accctggcat gacattcctt ctctttcctg gccctcaacc acttccttcc tttggctctt 780  
aagacctagc aggttctgtg aactctcagg ccttggccag cactagttag gggaggtcag 840  
gtggtcaatg tcctgggtgat tttatgagac tgccccactg agaaaactta cttacttcag 900  
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gattttcagc cctggtagaa taaggaagac agctgatgcc tccttagccc cttagcacat 1080  
gttcctaagg tgtgttgctca agccaacctg aattctgcct ccctgttata gtccctgtct 1140  
ccccacaga gacctgtggg tgctccagc agagttgaga ctggctccgt tgagttaatg 1200  
actagaatat agtgctttca ctacttgatt gttaacctgt tttcttctga tgccatcagt 1260  
accagcagtc agactattcc actggttaag tgtttactac cattaaagcg aggcattgaag 1320  
caaagagctg agtgagtcct ctgctctcca gaggaccaag aaatacctgt gtgacacaga 1380  
cccacttcag tgtgtacagc aaattctata gtgcttctga gccagcagg gctttacctg 1440  
cccctggaga gttttagccg tcttgtgttt cttgtttact tcacaaccaa atttgtcccc 1500  
tcttctctct gttaagggag agaagtcact ttagctggat aatacctatg taacaaactg 1560  
agcagctgtt atttgggcaa aatcaaagga agaaagagac tatggctctc tatttattgt 1620  
gggaaggaaa acaggggtggg gcgggtgagt gaaaagggtg aaatccctgg tactttgcct 1680  
gggtggttaca cagtttaacc ataggccaat tttagggggc tctgaagtat ctttctacaa 1740  
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ctttcagaaa acattagtgg ccgctgcccc agctacagag acggccgaaa tgctttcact 1860  
ccttagcttt gccaaactcca tcctccaaaa ctcccagaa tactccctt tccagttcta 1920  
ccaaatctgt acttgggagc agcctgctgg atccagaaca tgacaacaga gagctgcgtc 1980  
cacagggaac aaagccctga cctctctctc cacattacc ttacaaaaac aggccctccc 2040  
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gtgctctatg tgggcagAAC atgctctcct tgctctcct ggaagggtgtc ttctctatgg 2160  
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ccataaacia agacagactt gtagttttatt ttgtattttt tttaaataaa tacactttac 2280  
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<210> 372

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<220>  
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<222> (1548)  
<223> n equals a,t,g, or c

<220>  
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<222> (1556)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

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tcctgaggag cagcaggagg ctgaggaacc taaagcccg ctcctccgct caaatcact 240  
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<210> 373

<211> 1878  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (1717)  
<223> n equals a,t,g, or c

<220>  
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<222> (1764)  
<223> n equals a,t,g, or c

<220>  
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<222> (1771)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1773)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1810)  
<223> n equals a,t,g, or c

<400> 373

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tacgcatagc tgctaaattc atcactcatg cccccccagg ggaatttaat gaagtattca 180
atgacgttcg gctactactt aataatgaca atctcctcag ggaaggggca gcacatgcat 240
ttgcccagta taacatggat cagttcacgc ctgtgaagat agaaggatat gaagatcagg 300
tcttaattac agagcacggt gacctgggta atagcagatt tttagatcca agaaacaaaa 360
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ttattgcatg tattgaaagc caccagtttc agcctaataa cttctggaat ggctcgttga 600
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gccacattta atgttggtga gagagtgatc taccctaata acattttact gtttaaaaaa 1260
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actggctgga ccgtactggg gggcnattggg nangaagggt aattaaaaaa ctttggaaaa 1800  
aaaatgcagn aattgggttt ggaaaaaagg gggaaattaa ttaggggtatt ctttggggct 1860  
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<210> 374

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (703)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (786)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (797)

<223> n equals a,t,g, or c

<400> 374

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cctgtctgtc ggagacgacg gtgttgccgg ccgtgctgcg gcacatcagc gtgctgggtg 240  
cctgcttccct gaccttcccc aagcagtgcc gcattgctgt caagagaatg gtggtcgtat 300  
ggagcactgg ggaggagtct ctgcgggtgc tggctttcct ggtcctcagc agagtctgcc 360  
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ggaactgcaa gttcacctcg cctgggtgcc tccccttcat cagtttcatg cagtggacct 480  
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cgggccccag cgaagcctcc agcccttggg ctaacccctc tgncccaagt catcattggc 720  
tgtatcaagc tcatccccaw tgcccgnntc taacccgctg cgaatgcamt gcatccgtgg 780

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aatcct 846

<210> 375  
<211> 657  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (618)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (634)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (646)  
<223> n equals a,t,g, or c

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ctcatccgaa ttggcaggaa tgagtgtgtg gttgtcatta ggggtggacaa agaaaaagga 360  
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ttcacaaaat ccaaaactgt ttatagcatt cttcgtcatg ttgctgaggt gttagaatac 480  
accaaggatg agcagctgga aagcctattc cagaggactg cctgggtctt tgatgacaag 540  
tmcaagarac ctggatatgg tgcctatgat gcatttaagc atgcagctya grmcccatct 600  
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<210> 376  
<211> 695  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (39)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<400> 376

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gagagtcagc taaggagat aggggtctat gaaggggtgg ggtcgtttta taagatttag 180
gtaggtaaag gaaaattaca gtcaaagggg ggttgttctt tgggtgggcag gagtgggggt 240
cacaaggtgc tcagtggggg agattttttg agccaagata agccaggaaa aggamtttca 300
caagktaatg tcatcagtta aggcaaggac tggccatttw crcttctttt gtggtggaat 360
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ggccatctgg gcgtrtacgt gcawgtcata ggggatgcga tggcttggct tgggctcaga 480
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attcctagtg ctgtgtgggc acttagcaaa taattttaga acaaataaat acactttgcc 600
agatttaata gagaagtttt tacttactga agttggaaga tttgtangtg ttnccactcg 660
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<210> 377

<211> 3610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature



&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 377

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taagtttact tgggtgcagtt aagaattaaa cttgtcaatt ttaacattgc tgttacatct 3540  
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ctcactctcc 3610

<210> 378

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 378

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ccaaaccaac ccaaccaaac atgttatttg gtcctccttg gaa 223

<210> 379

<211> 809

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 379

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gccgagcgcc ggcgttgggc agaagcacag caccctccgt aagggcaccg ngagagcccc 180  
gragtgcgtt ccggggcttt cggagcagcg gtgtgaggac cagcagagag aagagattcc 240  
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gagtttgata aactcttata ccagtatat tgactgtttt aaattaacag atttatcacc 480  
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ggccacakgc cyataataat ggratattta cagtactttt tagtggagaa cttttttaag 600  
tagaatttca ataattaatg tttgatggag tttggaagtt accgtatttt gaagtatcgt 660  
ttaacattct tctctcaatg agttttcctt taaaatttgc agtgaatttg ttttcctggt 720  
tatgcatgag aatttaggtc ttattaattg ggggaaatta atgttaaagt aataaataag 780  
cccttggtgc aaacggacgc gtgggtcga 809

<210> 380

<211> 2550

<212> DNA

<213> Homo sapiens

<400> 380

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tggtctcaag gacactgcat cgtcaaactg atcccctggc cgttggagga gcagttcatc 180  
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tgcttggttc ttgctacggg actcaacgat gggcagatca agatctggga ggtgcagaca 420  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (1259)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1262)  
<223> n equals a,t,g, or c

<400> 381  
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aaaaaaaaa 1268

<210> 382  
<211> 854  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (835)

<223> n equals a,t,g, or c

<400> 382

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ccctatcccc atggtgcccc ttggtgggat ccagatgggt cactccatgc cgccagccct 180
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caccaccctt gacttgcatt atggtgaaaa ggacaatttt ggtacatcac agactccatt 660
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<210> 383

<211> 1091

<212> DNA

<213> Homo sapiens

<400> 383

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aaaaaaaaaa a 1091

<210> 384

<211> 1029

<212> DNA

<213> Homo sapiens

<220>

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<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1015)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<400> 384

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ttggaaaagg tgctgtgcct gaggaacaat accattttta agcaagcctt ttctctctta 180  
aggttttagaa cttcaggaga gaagcccatc tattctgtag gtggaattct actaagtatc 240  
agtcggccct acaagacaaa gccacccac ggcatctgga agtacaagca cttaattaaa 300  
gcagaagagc ccaagaagaa gaagggaaaa gtggaagtga gagccattaa tttggggaca 360  
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<210> 385



<211> 583  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (551)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (574)  
<223> n equals a,t,g, or c

<400> 385  
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<210> 386  
<211> 2410  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2167)  
<223> n equals a,t,g, or c

<400> 386  
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&lt;210&gt; 387

&lt;211&gt; 689

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 387

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caatgaattt gtgcyaaaaa aaaaaaaaaa 689

&lt;210&gt; 388

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<400> 388

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taagaagcgg cgccaagaa gaaatagcga acgcctactt ctaaaacca aaargctctt 720
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aaaaaaaaaa aaaaaaaaaa 798
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<210> 389

<211> 1691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1651)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1664)

<223> n equals a,t,g, or c

<400> 389

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tctgctagat tgcagtacta atggtagtgg tttagtgtct tcatgttaat attatttgta 1260
cttatttgaa caataatgat aaagaagtgg ttcattattt tttaattaat gcactttaaa 1320
taaggtagaa tggaaaaaac ccagagagca aagtgcatta cttaaagatg cagtatatac 1380
ttttctcatt tttaaacagc acatatttat taagagaaaa aaagtaattt atgactattt 1440
aaaataaaat ttaaaagtag agtgactgtc aggtaaagaa ccttcaatgt agctatcttc 1500
caagggggaa gggcctgcag cctccgctcc tcaa atgtct gcactgaacc agttccagtc 1560
actaattgcg ccaancaagg ccaggaagga attcaaaaca tgttctggcc aagcacaaga 1620
acatccccan tgggantgga acacaatgct nccccaaaac ctgnctttcc tggccttccc 1680
caacaactgg g 1691
```

<210> 390

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 390

```
gcgacggcgc tggcttgccc ggctgggaga gggcgtaagc aaaatgatgc ttcaacaccc 60
agggcaggtc tctgcctcgg aagtgagtgc ttctgccatc gtccccctgcc tgtccccctcc 120
tgggtcactg gtgtttgagg attttgctaa cctgacgccc tttgtcaagg aagagctgag 180
gtttgccatc cagaacaagc acctctgcca ccggatgtcc tctgcgctgg aatcagtcac 240
tgtcagcgac agacccctcg ggggtgtccat cacaaaagcc gaggtagccc ctgaagaaga 300
tgaaaggaaa aagaggcgac gagaaagaaa taagattgca gctgcaaagt gccgaaacaa 360
gaagaaggag aagacggatg cctgcagaaa gtgagtgcct tctaacctta cccttctctc 420
gctangcctg tctttaccaa cttnatgtgg ntat 454
```

<210> 391

<211> 807

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (805)

<223> n equals a,t,g, or c

<400> 391

```
caagctctaa tacgactcac tatagggaaa gctggtacgc ctgcaggtag cggtccggaa 60
ttcccggggtc gacccacgcg tccggggcgga aaaccgaagt tggaagtgtc tcttagcagc 120
gcgcggagaa gaacggggag ccagcatcat ggcagaacag gatgtggaaa acgatctttt 180
ggattacgat gaagaggaag agccccaggc tcctcaagag agcacaccag ctccccctaa 240
gaaagacatc aagggatcct acgtttccat ccacagctct ggcttccggg actttctgct 300
gaagccggag ctctgcggg ccatacgtgga ctgtggcttt gagcatcctt ctgaggtcca 360
gcatgagtgc attccccagg ccatacctggg catggacgtc ctgtgccagg ccaagtccgg 420
gatgggcaag acagcgggtc tctgtgctggc caccctacag cagattgagc ctgtcaacgg 480
acaggtgacg gtcctggtca tgtgccacac gagggagctg gccttcnaga tcagcaagga 540
```

atatgagcgc ttttccaagt acatgcccag cgtcaagggtg rgtcyntcgg ccagactgga 600  
ccaggcgcca cttggkttct gmagctttgk tagcctcggc tctggcccar ccagcattta 660  
ccaagcttgg caagggcagc tgcctttgaa ggtttgcagt ggtttttgct ccttaaaagc 720  
ctgattgaat tatgncatgg ctcccagggg cctgcgccag ttcccagcct ggggctgcct 780  
ttgaaatggg aaccccggga aggcncct 807

<210> 392

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 392

ctgcagcggg agctggatga ggccacggag agcaacgag ccattgggccc gaggtgaacg 60  
cactcaagag caagctcagg cgaggaaacg agacctcttt cgttccttct agaagggtctg 120  
gaggacgtag agttattgaa aatgcagatg gttctgagga ggaaacggac actcgagacg 180  
cagacttcaa tggaaccaag gccagtgaat aagcaacttt ctacagtttt gcaccacggc 240  
aagaaaacca aaaacaaaaa caaacaaca aaaaaaaccc aacaacaacc cagaacaaaag 300  
caaaacccag cagactgtac ttagcattgt cttaatccat tctcaaattc caaatatcac 360  
agacacccct cmcacaggaa acttcgcagt gatgcaccag gcgaggaaac gagacctctt 420  
tcgttccttc tagaagggtct ggaggacgta gaagttattg aaaatgcaga tggttctgag 480  
gaggaaacgg aactcagaga cgcagacttc aatggaacca aggccagtga ataagcaact 540  
ttctacagtt ttgcaccacg gcaagaaaac caaaaaccaa aacaaacaaa caaaaaaac 600  
ccaacaacaa cccagaacaa agcaaaaaccc agcagactgt acttagcatt gtctaaatcc 660  
attctcaaat tccaaatatc acagacaccc ctacacacag gaatataaaa accaccaccc 720  
tccagcctgg gcaacgtagt aaaaacctca tctatacaag attttaaaaa taagctgggc 780  
gtggtggtac acacctgtgg tcccagctac tagggaggct gagccaggaa gaacgstyca 840  
gccaggayt tcgrggctgc aatgagctat aattgcatca ttgcactcca gcctgggcaa 900  
cagagaccct gttttnaacc accacca 927

<210> 393

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 393

ggcacgagcc accacgaggg caccaggggtg actgcgggat tccgatctgc gccggagctg 60  
cgatgctaga gcactcttgc cacccccacc ccacggacgt gttgcagtga tatcagaatt 120  
ttgcgtgcgg tttaccctgt tttaacctct ttgcgtctcg cttctgaatc gtatccactt 180  
gagcatcact agactgatct attttaacac tgggtggggg cagcgaggac atggttttta 240  
actttaaaat gaaaatgtga aactaggaat gttgctgtga gacccttgg acaaacagat 300  
ttttgcactg gggatagaac ttgagcaatt tctgtcttgg cctcgccact gacgtccctt 360  
ctttcctgtg gggacaggat ggacagattc ctggtgaaag gggctcaagg gggccttttg 420  
aggaagcagg aggagcaaga gccaaactgga gaagagccag ctgtgttggg aggagacaaa 480  
gaaagcacia ggaagaggcy caggagagag gccccaggga atggaggcca ctcagcaggc 540  
cctagctggc ggcacattcg ggctgagggc ctggactgca gttacacagt cctgtttggc 600  
aaagctgagg cagatgagat tttccaagag ttggagaaag aagtagaata ttttacaggt 660

ataaagatgg ctgtgaccac atcggggagc accgagatga tgaaagagaa ctggcccctg 720  
ggagcccat tgcctctgtc tccttcggtg cctgcagaga ctttgtcttc cggcataagg 780  
attcccgtgg gaaaagcccc tccaggaggg tggcgggtgg caggctgccg ctggcccacg 840  
ggagcttact aatgatgaac cacccgacca acacgcactg gtaccacagt cttcccgtga 900  
gaaagaaggt tctggctcca cgggtgaatc tgacttttcg taaaattttg cttactaaaa 960  
aataaaaaca tttttaacag ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020  
aaa 1023

<210> 394  
<211> 822  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (550)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (788)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (813)  
<223> n equals a,t,g, or c

<400> 394  
aaaaatttta aacaaagaaa ggaaaaaaat tgacaataaa agtcactctt ctaattgaat 60  
atttttatat ttttatgaaa caaaagagca tttcttcagg tttctattgt atttttttta 120  
acattcttgc agagaaagca agatccaaat tgattttggg atattaaaag ttaacagaac 180  
actgaacaag gaaagaatgg catagatcta tctttacagt ctggagttaa ttcctgttaa 240  
ctcattttat ccattcctta cataatcttc tttcctgtta gtccagtttg atggtgtgaa 300  
tggtgaattt caggcccagt tgctaaattt tgtggcatct tcctctagtc cttcccacct 360  
ccagtcatca gcccactct gtcttgagga caggcaggag gtgggggaag agctgaatct 420  
ctttattttc cctggtagag acatcttcaa ggcatgaaat agcttaaaga gcagagtaga 480  
aatggaagag gctttgcaaa aggctagata actaacaaca cctgggttgg ggcggcggcc 540  
tcttctcttn cagctccctt agcttggtc cgtaagtgga tcacttgcca aatgctttag 600  
atgattgcct ctcaataatt gaaagggtgg ggtagttgta ttctaaatga tgtagaaggt 660  
taaaaataat tacattatgc ttctattcta tcatctaaaa cmaatcatta aaactaattt 720  
ctagctaaat kgtttaattat aattatgctc agaatctatt aatgagctct gctggcttac 780  
gactgcgngt taagagaaat ctttacaaga ccnaggcctg aa 822

<210> 395  
<211> 1702  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (1694)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1696)

<223> n equals a,t,g, or c

<400> 395

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gcttcttttg tttctgatta tgtttttctgc agagagacac gggctcaagg aaccaagag 60
agtggagaa ctgcaaaaca agattgtaaa ttgtctcaaa gaccacgtga ctttcaacaa 120
tggggggttg aaccgccccca attatttgts caaactgttg gggaagctcc cagaacttcg 180
taccctttgc acacaggggc tacagcgcac tttctacctg aaattggaag acttggtgcc 240
accgccagca ataattgaca aacttttcct ggacacttta cctttctaag acctcctccc 300
aagcacttca aaggaactgg aatgataatg gaaactgtca agagggggca agtcacatgg 360
gcagagatag ccgtgtgagc agtctcagct caagctgccc cccatttctg taaccctcct 420
agcccccttg atccctaaag aaaacaamca aacaaacaaa aactgttgct atttcctaac 480
ctgcaggcag aacctgaaag ggcatttttg ctccggggca tcctggattt agaacatgga 540
ctacacacaa tacagtggta taaacttttt attctcagtt taaaaatcag tttgttggtc 600
agaagaaaga ttgctataak gtataatggg aaatgttttg ccatgcttgg ttgttgcagt 660
tcagacaaat gtaacacaca cacacataca cacacacaca cacacacaga gacacatcct 720
aaggggaccc acaagtattg cccyttaaca agacttcaaa gttttctgct gtaaagaaag 780
ctgtaataata tagtaaaaact aaatgttgcg tgggtggcat gagttgaaga aggcaaaggc 840
ttgtaaattt acccaatgca gtttggtttt ttaaattatt ttgtgcctat ttatgaataa 900
atattacaaa ttctaaaaga taagtgtgtt tgcaaaaaaa araaaawaaa tacataaaaa 960
agggacaagc atgttgattc taggttgaaa atgttatagg cacttgctac ttcagtaatg 1020
tctatattat ataaatagta tttcagacac tatgtagtct gttagatttt ataaagattg 1080
gtagttatct gagcttaaac attttctcaa ttgtaaaata ggtgggcaca agtattacac 1140
atcagaaaat cctgacaaaa gggacacata gtgtttgtaa caccgtccaa cattccttgt 1200
ttgtaagtgt tgtatgtacc gttgatgttg ataaaaagaa agtttatatc ttgattattt 1260
tgttgtctaa agctaaacaa aacttgcatg cagcagcttt tgactgtttc cagagtgcct 1320
ataatataca taactccctg gaaataactg agcactttga atttttttta tgtctaaaat 1380
tgtcagttaa tttattattt tgtttgagta agaattttta tattgccata ttctgtagta 1440
tttttctttg tatatttcta gtatggcaca tgatatgagt cactgccttt ttttctatgg 1500
tgtatgacag ttagagatgc tgattttttt tctgataaat tctttctttg agaaagacaa 1560
ttttaatggt tacaacaata aaccatgtaa atgaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaag gggngnccgt tt 1702
```

<210> 396

<211> 858

<212> DNA

<213> Homo sapiens

<400> 396

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cttgggcctc tgacatgact tatgtgtgtg tgtgtttttg ggggtggggag ggagggagag 60
aagagggggc taaatttgat gctttaactg atctccaaca gttgacaggt catccttgcc 120
agttgtataa ctgaaaaagg acttttctac caggtatgac cttttaagtg aaaatctgaa 180
ttgttctaaa tggaagaaaa aaaagtgtga atctgtgccc ttcattgggg acattcctct 240
aggactggtt tggggacggg tgggaatgac ccctaggcaa ggggatgaga ccgcaggagg 300
aaatggcggg gaggaggcat tcttgaactg ctgaggatgg ggggtgtccc ctcagcggag 360
```



```

gccaaagggag gggagcagcc tagttggtct tggagagatg gggaaggctt tcagctgatt 420
tgcagaagtt gcccatgtgg gcccagcca tcagggctgg ccgtggacgt gcccctgccc 480
actcacctgc ccgcctgccc gcccggccgc atagcacttg cagacctgcc tgaacgcaca 540
tgacatagca cttgccgatc tgcgtgtgtc cagaagggtgc ccttggccga gcgccgaact 600
cgctcgccct ctagatgtcc aagtgccacg tgaactatgc aatttaaagg gttgacccac 660
actagacgaa actggactcg tacgactcct tttatatattt ttatacttga aatgaaatcc 720
tttgcttctt ttttaagcga atgattgctt ttaatgtttg cactgattta gttgcatgat 780
tagtcagaaa ctgccatttg aaaaaaagtt atttttatag cagcaaaaaa aaaaaaaaaa 840
rakcaaaggw tttcattt                                     858

```

<210> 397

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (996)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 397

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cggctgggct gcggaacgc ggccgggtccg gttccgcggc ccaggcagag ggactctgca 60
agcaatggct gcagcgcgcc tggcaagagc ggcgcctgct gctgcgggag ccgcgctaca 120
cgctgctggt ggccgcctgc ctctgcctgg cggagggtggg catcaccttc tgggtcattc 180
acagggtggc atacacagag attgactgga aggcctacat ggccnaggta gaaggcgtca 240
tcaatggtac ctatgactat acccaactgc aggggtgacac cggaccactt gtgtacccag 300
ctggtttcgt gtacatcttt atgggggttg actatgccac cagccgaggc actgacatcc 360
gcatggccca gaacatcttt gctgtgctct acctggctac cttgctgctt gtcttcttga 420
tctatcacca gacctgcaag taacctccct tcgtcttttt cttcatgtgc tgcgcctctt 480
accgtgtcca ctccatcttt gtgctgcggc tcttcaatga ccagtgggc atgggtgctgc 540
tcttcctcag tatcaacctc ctgctggccc agcgcctggg ctgggggttg tgctttttca 600
gcctggcagt ctctgtgaag atgaatgtgc tgctcttcgc ccctgggtta ctgtttcttc 660
tcctcacaca gtttggtctc cgtgggggcc tccccaagct gggaatctgt gctggccttc 720
aggtggtgct ggggctgccc ttctgctgg agaaccacag cggctacctg tcccgcctcc 780
ttgaccttg cgcagttt ctgttccact ggacagtga ctggcgcttc ctcccagagg 840
cgctcttcct gcatcgagcc ttccacctgg ccctgttgac tgcccacctc accctgctcc 900

```

tgctgtttgc cctctgcagg tggcacagga caggggaaag tatcttgteg ctgctgaggg 960  
atccctccaa aaggaagggt ccaccccagc cccttnacac ccaaccagat cgtttytaac 1020  
ccttttcaac tccaatttca ttgggsatct ggtttcagsc gkttccttcc attaacagtt 1080  
tttaagggtt gggtattttt caaaanattg 1110

<210> 398  
<211> 864  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (823)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (830)  
<223> n equals a,t,g, or c

<400> 398  
gcggcacgtg gcgcgggtgc ggggcgtgga gtggcgtggc gtggagtggc gtggcgtggc 60  
ggggtctcgc ggcgcgggcg cgcacccgga gctgtggacg gagagtgcct ccctctggcc 120  
tcagtttcct catgtttag tagcggacat ggcccggacc ggccscgag accgccccgt 180  
gcaacctcac cgccagcctg ggggcctcag cgactgggac gggaccaagg ggctcgggga 240  
ttctccctgc ccccgccct ggtgcgtgac tgaccctcct gttcccagag ccccagcgc 300  
argccgggat gtctgtcctg tgggaaatgg tggacaccgt ccggatcccc ccttggcagt 360  
ttgagaggaa gctcaacgac tccattgccg aggagctgaa caagaagttg gccacaagg 420  
tcgtgtacaa cgtgggactc tgcatttgtc tgtttgatata caccaaactg gaggatgcct 480  
atgtattccc tggggatggc gcatcacaca ccaaagtcca ttttcgctgc gtggtgtttc 540  
atccattcct agatgagatt ctattggga agatcaaagg ctgcagcca gaaggagtgc 600  
acgtctctct aggtttcttc gatgacattc tcatcccccc agagtcactg cagcagccag 660  
ccaagtctga cgaagcggag caggtgtggg tgtgggagta cgagacggag gaaggagcac 720  
acgacctcta catggacacc ggcgaggaga tccgcttccg ggtggtggac gagagctttg 780  
ttgacacgtc cccacargg cccagytcag cagatgccac cantttccan tgargagctg 840  
ccaaagaagg aggtccgtt acac 864

<210> 399  
<211> 271  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (251)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<400> 399

```
tggattttta taaggccaga catttacctc tggtaatctc ttgagccatg tgtttcattt 60
ttatgctcac agaataattt ggtgtaatgg ggcttatyaa cccaaatttc agaactttaa 120
attcatgtat ctttttctac actgatgact atactcaaag catcttactt taattatata 180
aatgtatata ctgtctttct caactggggt ttcaagagag aattaagccc aaaataaaat 240
aatttgtgtg ngcttatttt ctncattttt c 271
```

<210> 400

<211> 925

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (844)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (900)

<223> n equals a,t,g, or c

<400> 400

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ctcgtgccga attcggcacg agcasgagcg cgtgctcagt gtgctgggta cagncgactc 60
cgggacaggg ggtctcggcc gtcggcgta tggtttcgcg cgtgcagctc ccgcctgaga 120
tccagctggc tcagcgcttg gcggggaatg agcagggtgac ccgggaccgg gcggtgagga 180
agctccggaa atacatcgtc gccaggactc agcggggccgc agtgggtttta cgcacgacga 240
gctgctgaag gtgtggaaag gactgtttta ttgcatgtgg atgcaggaca agccactcct 300
ccaggaagaa ttaggaagga ctatttccca gctcgttcat gcttttcaga ccacggaggc 360
gcanacctgt tccttcaggc cttctggcag accatgaatc gcgagtggac gggcattgac 420
aggctgcgct ggataaatc tacatgctca tgcggatggc cctgaacgag tccttgaagg 480
ytctgaagat gcaaggctgg gaagaaagac agatcgagga gctgctagag ctgctgatga 540
ctgaratcct gcaccccgag agccaggccc ccaacgggtg gaagagccac ttcacgaga 600
tcttcctgga ggagctgacc aaagtgggcg ccgangsagc ttacggcaga ccagaacctg 660
gaagtcatc gaccccttct gcagaatcgc tgcccggacc aaggattcct tggttttgaa 720
```

caacatcact cgaggcatct ttgagacgat tgtggagcag gccccgcttg ccattgaaga 780  
cctcctgaat gaactggaca cacaggatga ggaggtggcg tcggacagtg atgagtcctc 840  
tganggcggt gaacgttgag acgcgctgtc ccagaagagg tctgagaagc cgccccgagn 900  
ttccatctgc agggctgaac ctgag 925

<210> 401

<211> 1085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1080)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1085)

<223> n equals a,t,g, or c

<400> 401

cggacgcgtg ggtgctgggg ctgcagmgt gcctccgaga ccgcgaggtg ggtggagcgg 60  
gtcttcctgg aagggtgcga taaggccggg cgaggtgcct gggatgcttc tccccctccg 120  
cgaggaagag atctaattgg gtagggcggg tgtagactag cctgccgagc cgccccgctg 180  
cacctgcagc ctcttgggcg cccgccgggc cccggcgaga aagttgttaa agggagcgag 240  
gtggttggtc ctgggggtccg aggcgcgcct ctacgcctt gcccaacaga agccgcagtc 300  
ccgtgggggtc tggagacgca gtttcctgtt aatgacaata aatccctgct cccctgcct 360  
cagacatcta cgcagcgaaa tcgagcctgg ccttgagggt ccacaccgcg aggggaagatg 420  
cgtgcgcca ttccagagcc taagcctgga gacctgattg aratttttcg ccctttctac 480  
agacactggg ccattctatgt tggcgatgga tatgtggttc atctggcccc tccaagtga 540  
gtcgcaggag ctggtgcagc cagtgtcatg tccgccctga ctgacaaggc catcgtgaag 600  
aaggaattgc tgtatgatgt ggccgggagt gacaagtacc aggtcaacaa caaacatgat 660  
gacaagtact cgccgctgcc ctgcagcaaa atcatccagc gggcgaggga gctgggtggg 720  
caggaggtgc tctacaagct gaccagtga aactgcgagc actttgtgaa tganctgcgc 780  
tatggagtgc cccgcagtga ccaggtcaga gatgtcatca tcgctgcaag cgttgcagga 840  
atgggcttgg cagccatgag ccttattgga gtcattgtct caagaaacaa gcgacaaaag 900  
caataactga aaaagactgt cctgtcagcg atgactttat acatcaaggg ggtcttgttt 960  
tgctagagag tttgggggttt ggtttgtgga ttccattgtg atttataata aggcttattt 1020  
tcacagaata aaataaagca aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080  
ggggn 1085

<210> 402

<211> 348

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (65)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<400> 402  
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aaggnaaaac ccttwaaggg ttgggggaaa ttcccccccc ccgggggggg gccctttgcc 120  
caaaggggaa aaattttccg ggggccaanc cggaaaggcc caaaaaagg ttccccccgg 180  
ggaaggaatc ccgggttgga attgttaaaa ccaaaagggg aattttgaag gccggaaatt 240  
cgggttgccc cccaacttcc cccaacattc ccgggggggac ttggggggctg gaacgatgcc 300  
ttgggagnc tggcaagct tggcaaggct ggttggtcag ctngcgca 348

<210> 403  
<211> 1470  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<400> 403  
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cgagtcgtgc gaggtgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180  
gggagctgtt caaaaaacga cctctttcta ctctgtagt agaaaaacgt tcagcatctt 240  
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caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360  
gaagctcttg atataagtgt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420  
atcagcgagg agatacgcac cctctaacct tagatgaaat tttggatgaa acacaacatt 480  
tagatattgg actcaagcag aaacaatggc taatgactga ggcttttagtc aacaatccca 540  
aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600  
aggccctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660  
aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720

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tactatattgt aaatcgtccc gataagaaga aaataactttt cttcaatgat aagagctgtc 780
agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
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gttcctttct tcctcgtttg ttactttaga gcaagtgtgc ccatagtctt gaatgcaata 1380
tttgtttatt ccaaaagaac atatttataa taaaatcact gtagaaggat taaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aggggagggg 1470
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<210> 404

<211> 2487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 404

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cccgcggcgg cgcggcgcca cctccgcctg ctgctccgac ccgctcccgg cccgcggcgg 180
cggcaccagg gcgcccggct cagccttccc ggaggcctcg gcccggcctc atcgtgccgg 240
cttcgcgcgc gaacccggct ttgcatttg ggacctgca ggcagaaaaa tatggctcag 300
gagactaacc agaccccggg gcccatgctg tgtagcacag gatgtggctt ttatggaaat 360
cctaggacaa atggaatgtg ttcagtttgc taaaaagaac atcttcagag gcagcaaaat 420
agtggcagaa tgagcccaat ggggacagct agtggttcca acagtcctac ctccagattct 480
gcatctgtac agagagcaga cactagctta aacaactgtg aagggtgctgc tggcagcaca 540
tctgaaaaat caagaaatgt gcctgtggct gccttgccct taactcagca aatgacagaa 600
atgagcattt caagagagga caaaataact accccgaaaa cagagggtgtc agagccagtt 660
gtcactcagc ccagtcctac agtttctcag ccagtaactt ctccagagtga agaaaaagct 720
cctgaattgc ccaaaccaaa gaaaaacaga tgtttcatgt gcagaaagaa agttgggtctt 780
acagggtttg actgccgatg tggaaatttg ttttgtggac ttcaccgtta ctctgacaag 840
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gttggtgtgg ctgaaaaaat tcagagaata taaattactt cttgtgaaga gactgaaact 960
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gtttgggtgt ttgttacagg cagaattgga tagatacagc cctacaaatg tatatgccct 1140
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gaccttcttt cccgtgaaac cagtatttgg cgccatatat aagcctgggt aaattgggtca 1500
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accagaagat gtctgcatta ctcatcgcta aaaatgtgta gcacagaact gcactaggat 1680  
taattttgttt acaagaagaa atttaaactc tacgtttggg ttccacatac agcagctcta 1740  
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ttctctctct ctctctctcc tcgtgcc 2487

<210> 405

<211> 1256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1180)

<223> n equals a,t,g, or c

<400> 405

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ggttcgtagt tcggctctgg ggtcttttgt gtccgggtct ggcttggtt tgtgtccgcg 120  
agtttttgtt ccgctccgca gcgctcttcc cgggcaggag ccgtgaggct cggaggcggc 180  
agcgcggtcc ccggccagga gcaagcgcgc cggcgtgagc ggccggcgga aaggctgtgg 240  
ggaggggggt tcgcagatcc ccgagatgcc ggagttcctg gaagaccctt cggtcctgac 300  
aaaagacaag ttgaagagtg agttggctgc caacaatgtg acgctgccgg ccggggagca 360  
gcgcaaagac gtgtacgtcc agctctacct gcagcacytc acggctcgca accggccgcc 420  
gtcccccgcc ggcaccaaca gcaagggggc cccggacttc tccagtgcag aagagcgca 480  
gcccaccccg gtcytcgggt ctggggccgc cggcgcgggc cggagccgag caccgtcggc 540  
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acagagctca ctaatgaaga tcttttggat cagcttgtga aatacggagt gaatcctggt 660  
cctattgtgg gaacaaccag gaagctatat gagaaaaagc ttttgaaact gaggaacaa 720  
ggaacagaat caagatcttc tactcctctg ccaacaattt cttcttcagc agaaaataca 780  
aggcagaatg gaagtaatga ttctgacaga tacagtgcac atgaagaagg aaagaagaa 840  
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tccctctggt ggtgggattt tttcagggtt tttcttttcc tgaaatctcc acccgtcctc 960  
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<210> 406



<211> 771  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (200)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<400> 406  
gttcttctaa atcaggaatg gattgaaatc taatgaaccg aaactttggg tacttcggcc 60  
ttcaaggggc tcctttattg agaatcaatg tcttctccta ggtaattgat caccctagac 120  
ccagggacac ccaattcatc gtaatcatca tgaataatca aaaagtggta gctgtgctac 180  
tgcaagagtg caagcaagtn ctggntcagc tcttggtgga agcgccagat gtgtcggaag 240  
aggacaagag cgaggaccag cgctgcagag ctttactccc cagcgagtta aggaccctga 300  
tccaggaggc aaaggaaatg aagtggccct tcgtgcctga aaagtggcag tacaaacaag 360  
ccgtggggcc agaggacaaa acaaacctka aggatgtgat tggcgccggg ttgcagcagt 420  
tactggcgtc cctgagggcc tccatcctcg ctcgggactg tgcggctgcg gcggctattg 480  
tggtcttggt ggaccggttc ctgtatgggs tcgacgtctc tggaaaactt ctgcaggctc 540  
ccaaagggtc ccacaagttg cagccagcca cgccaattgc cccgcagggtg gttattcgcc 600  
aagcccgaat ctccgtgaay tcaggaaaac ttttaaaagc agagtatatt ctgagcagtc 660  
taataagcaa caatggagca acgggtacct ggctgtacag aaatgaaagt gacaagggtcc 720  
tggtgcagtc ggtctgtata cagatcagag ggcagattct gcaaaagctg g 771

<210> 407  
<211> 2643  
<212> DNA  
<213> Homo sapiens

<400> 407  
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aaggacatga gaaaggcgtg aattgcattg attactacag tgggtggggac aagccataacc 120  
tcatttcagg tgcagatgac cgtcttggtta aaatatggga ttatcagaat aaaacatgtg 180  
tgcagacact ggaaggacat gcccaaaatg tgtcttggtc cagctttcat cctgagttgc 240  
caatcattat cacaggttca gaagatggaa cagtacgtat ttggcattca agcacctacc 300  
ggcttgagag cacactgaat tatggaatgg agagggtatg gtgcgtggcc agtctaagag 360  
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tccagcaggc caacctaaaa gcaatgggag atgctgaaat taaagatggg gaaagattgc 540  
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ctaattggcg gtttgtggtg gtgtgtggtg atggggagta tatcatctac acagcaatgg 660  
cattgagaaa caagagcttt ggatctgctc aggagtttgc atggggccac gattcttcag 720  
agtatgcaat aagagagagc aacagcattg taaagatatt taagaacttt aaggaaaaaa 780  
aatcatttaa accagatttt ggagcagaaa gtatctacgg cggtctctta ttgggagtc 840  
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cacacttttt ggaaaagcag ggcttcaagc agcaagctct tacagtatcc acagatcctg 1440  
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aacaataccc acttgtcacg ccaaatgaag agagaaatgt catggaagag ggaaaagact 2040  
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cggttattgt ggctccccc acagccaaca aagaagaaaa gagtttactc gaactagaag 2160  
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gatttttttc atactattag accatatctc ataaaacctt ttgaattaat gaaggactt 2520  
gtttcctttc tcaataatga aaataggctt ctagttttag aaggctgagc cgaaactaca 2580  
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tgt 2643

<210> 408

<211> 1646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 408

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cctcatcaag gaggcaggct ttccccctgg ggtggtgaac atcatcacgg ggtatggccc 120  
aacagcaggt gcggccatcg cccagcacat ggatgttgac aaagttgcct tcaccgggtc 180  
caccgaggtg ggccacctga tccagaaagc agctggcgat tccaacctca agagagtcac 240  
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cgtggagcag tgccacgaag ccctgttctt caacatgggc cagtgtgct gtgctggctc 360  
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aaagcagagg aaagtgggga acccctttga gctggacacc cagcaggggc ctcaggtgga 480  
caaggagcag tttgaacgag tcctaggcta catccagctt ggccagaagg agggcgcaaa 540  
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catcaactga tgagtggatt aataaaatgt ttccatggaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaa 1646
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<210> 409

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 409

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tcaatcccc gtctcctac acttttctct gtgagaaaga tccacctaca acctcagggtc 180
ctcagaccra ccagcccaag aaacatctca ccaatttcaa atctggcacc cactggaaat 240
cagactgcc agctcgccc acagccactc ctggagcccc taaagctcta gccaagggt 300
ctctgactcc ttcccagatc tattcggtt agcgactgaa gattgacgct gcccgatcgc 360
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taagtccatc ccctgtttaa tcgatacggg ggctaccac tccacgttgc cttcttttca 480
agggcctgtt tcccttgccc ccataactgt tgtgggtatt gacggccaag cttcaaaacc 540
cctgaaaact ccccaactct ggtgccaaact tggacaacac tcttttatgc actctttttt 600
agttatcccc acctgcccac ttcccttatt aggcgaaat attttaacca aattatctgc 660
ttccctgact attcctggag tacagctaca tctcattgct gcccttcttc ccaatccaaa 720
gcctcctttg tgtcctctaa catccccaca atatcaccct ttaccacaag acctcccttc 780
agcttaatat ctcccactct aggttcccac gccgccccta atcccacttg aagcagccct 840
gagaaacatc gtccattctc tctccatacc accccc 876
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<210> 410

<211> 1850

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1817)  
<223> n equals 'a,t,g, or c

<220>  
<221> misc feature  
<222> (1848)  
<223> n equals a,t,g, or c

<400> 410  
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gagagagtcg gagacactat ccgcttccat ccgtcgcgca gaccctgccg gagccgctgc 120  
cgctatggat gatcgagagg atctggtgta ccaggcgaas ctggccgagc aggctgagcg 180  
atacgacgaa atggtggagt caatgaagaa agtagcaggg atggatgtgg agctgacagt 240  
tgaagaaaga aacctcctat ctggtgcata taagaatgtg attggagcta gaagagcctc 300  
ctggagaata atcagcagca ttgaacagaa agaagaaaac aaggaggag aaganaagct 360  
aaaaatgatt cgggaatatc ggcaaatggt tgagactgag ctaaagttaa tctgttgtga 420  
cattctggat gtactggaca aacacctcat tccagcagct aacactggcg agtccaaggt 480  
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<210> 411  
<211> 661  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 411

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agcaaaatct tgtaaagtca ttcgcaaaaa cattgttaag aagtgccttg agctcttctc 180
tgagctggca gaagacaagg agaattacaa gaaattctat gaggcattct ctaaaaatct 240
caagcttgga atccacgaag actccactaa ccgccgccgc ctgtctgagc tgctgcgcta 300
tcatacctcc cagtctggag atgagatgac atctctgtca gagtatgttt ctgcgatgaa 360
ggagacacag aagtccatct attacatcac tggtgagagc aaagagcagg tggccaactc 420
agcttttgtg garcgagtgc ggaaacgggg cttcsaagtg gtwtatatga mcgarcccat 480
tgacrartwc tgtgtgcagc arctcmagga atttgawngg aararmctgg tcycagttac 540
caaggaggtc tggarctgcc tgaggtnnag gagagaagaa gaagatggaa gagagcaagg 600
caagtttaga ccttgacgct ctgaagaatc ttagttaaag ttagaagngc atcccatagn 660
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<210> 412

<211> 1263

<212> DNA

<213> Homo sapiens

<400> 412

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agtgatgatg aggcagagga agagaaaggt gagaaagaag aggaagataa agatgatgaa 240
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aagaagaaaa ctaagaagat caaagagaaa tacattgatc aggaagaact aaacaagacc 360
aagcctatct ggaccagaaa ccctgatgac atcacccaag aggagtatgg agaattctac 420
aagagcctca ctaatgactg ggaagaccac ttggcagtc agcacttttc tgtagaagggt 480
cagttggaat tcagggcatt gctattttatt cctcgtcggg ctccctttga cctttttgag 540

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aacaagaaga aaaagaacaa catcaaactc tatgtccgcc gtgtgttcat catggacagc 600  
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ctgcccctga acatctcccg agaaatgctc cagcagagca aaatcttgaa agtcattcgc 720  
aaaaacattg ttaagaagtg ccttgagctc ttctctgagc tggcagaaga caaggagaat 780  
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actaaccgcc gccgcctgtc tgagctgctg cgctatcata cctcccagtc tggagatgag 900  
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gatgaggagg agaagaagaa gatggaagag agcaaggcaa agtttgagaa cctctgcaar 1200  
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gag 1263

&lt;210&gt; 413

&lt;211&gt; 1337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

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aggcggctcg ggagattcag ccgtgaagca agtgcagata gatggccttg tggattataa 180  
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agaggatgat gctgactttg atgaagtcca atatcagatg gaaatgatgc ggascctcgc 360  
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gttaccgggg cactcctgga ctctcagttt agttaccagc atgccattga agaattctgc 480  
gttctcattt atgatcccat aaaaactgcc caaggatctc tctcactaaa ggcatacaga 540  
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gaattgctca gccttgccag cagcaatcat ttggggaaga atctacagtt gctgatggac 780  
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cccattcccc ccttttg 1337

&lt;210&gt; 414

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature



<222> (744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (783)

<223> n equals a,t,g, or c

<400> 414

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aagctactaa ccagagccgg ctctttctcg agattttatt ccctcaaagt tgcccccaa 180
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aagttaccaa atggcttggg gattgcttct ttggaaaact attctcctgt atcaagaatt 300
ggtttggttca ttaaagcagg cagtagatat gaggacttca gcaatttagg aaccacccat 360
ttgctgcgtc ttacatccag tctgacgaca aaaggagctt catctttcaa gataaccctg 420
ggaattgaag cagtgggtgg caaattaagt gtgaccgcaa caagggaata catggcttat 480
actgtggaat gcctgcgggg tgatgttgat attctaattg agttcctgct caatgtcacc 540
acagcaccag aatttcgtcg ttgggaagta gctgacctc agcctcagct aaagattgac 600
aaagctgtgg cctttcagaa tccgcagact catgtcattg aaaatttgca tgcagcagct 660
taccggaatg ccttggtctaa tcccttgkat tgtcctgact ataggattgg aaaagtgaca 720
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agnatcaata ga 792
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<210> 415

<211> 1342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1036)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1038)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1099)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1181)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (1224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<400> 415

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tcgcttcccg gcgcgggtcgc agccctcagc ccacttagga taatggcgac agctgaggta 180
ctgaacattg gtaaaaaatt atatgagggt aaaacaaaag aagtctacga attgttagac 240
agtccaggaa aagtcctcct gcagtcgaag gaccagatta cagcaggaaa tgcagctaga 300
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ttattacagg aagcagggtat taaaactgcc ttcaccagaa aatgtgggga gacagctttc 420
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tcttttctca aaagaaatcc tgggtgtcaag gaaggatata agttttaccc acctaaagtg 540
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gtcctgggga acacctgcca tatnccaggt tatccagcct gtcctncccc ttaanacca 1260
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<210> 416

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 416

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cagtaggctg ggcggggagc gtcggaccag aagagaatca cgccaggaaa gcgacccgga 360
ggatgatgat gttaaaaagc cagcattgca gtcttcagtt gtagctacct ccaaagagcg 420
cacacgtaga gaccttatcc aggatcaaaa tatggatgaa aagggaagc aaaggaaccg 480
gcgaatatatt ggcttggtga tgggtaccct tcaaaaattt aaacaagaat ccactggtgc 540
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tattcctgga agaattgtgc cagctaccca aaaactaata gaagagtcac agagaaaaat 840
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aaagaaaaga aaagaaagga aagaaaagaa aac 1113
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<210> 417

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 417

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gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtgt 180
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graaaacacg tctcaccact gtggttgatt caaaagaaag tgattctatt ttttaaagaa 1080  
agcgttggtta atgtaattgg tatccctcct aactttttga gttcasaatt tacttggtca 1140  
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<210> 418  
<211> 673  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (213)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (506)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (586)  
<223> n equals a,t,g, or c

<220>  
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<222> (618)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (661)  
<223> n equals a,t,g, or c

<400> 418  
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ctcagccccg cggacgcatg tccccttgcc gagttgaggg cagctggcct agagcctgtg 180  
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ngggcaacca ttg 673

<210> 419  
<211> 2178  
<212> DNA

<213> Homo sapiens

<400> 419

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aaggagagaga gtgggagttt cccagcccgc agaactttcg aagttgagaa ragaaccctt 180
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caaaccacct tttatgtttt attatttttg aattcatgga gccatcataa aaatattttt 1860
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<210> 420

<211> 1884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (283) .

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 420

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&lt;210&gt; 421

&lt;211&gt; 622

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

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<210> 422

<211> 1285

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (489)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

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<210> 424  
<211> 3118  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c

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&lt;210&gt; 425

&lt;211&gt; 1410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

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<210> 426

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 426

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<210> 427

<211> 830

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<400> 427

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<210> 428

<211> 1622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<400> 428

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gccctaaggc atcctaccaa cagcaccatc aaggcacgtt ggagctttct tgccagaact 1080
gatctctttt ggtgtgggag gacatggggt accacctaca cccaacaagt caatgaggga 1140
cttcttttta atttggtagg attttgactg gttttgcaac aataggtcta ttattagagg 1200
cacctatgac aaaaaatagg ggttacctag ataatgccaa agtcagcatt tgcctgggt 1260
tcccttggtg gatctgtttg gactatgttt tcttttcttc tcccacttgc tcagcagctt 1320
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ttgccctctt tcaatttcct tgtgaaaaca cccttaactt tctctttacc cttagctgaa 1440
atgtttacat agcttctggt gatattcttt catgatttta aatctcttaa aatgggtgat 1500
gatgtgacac ctcataaaag tgagcttttg actgtagata actcttaaag aaaatgtcat 1560
tttagacaat taaaatattt gtgctcaact gcttgaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aa 1622
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<210> 429

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<400> 429

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ctatgctact tagatatttg tggcaaagca gaaagctttt tgactgtnaa ggcagaggtc 60
agcactgggg gaaacttgct ggtggtctct cccacaacct tgcccagagt cctttccact 120
aaggagggtga agagaacaga gaaagagatt tccattttctg ctgccagagc tggatatttg 180
ctgcctgatt ctctgtgttt cctgtttcac cgccaccctt tcaggagaga actacaccag 240
ttcatcatga gggtcaggga agcaaaagct ctcatatgtg tccaggggcgt tacttaagaa 300
atgagtatgc agattctgga aggggtgtgg aaaagggtgat cctttacccc caccaggaa 360
aacctgcatt gtgctagcat ggaanaatca tgggctttgg aattaaacc atttgggtgga 420
attaaacca tttggtttca aatcccagtt atnacatctg ttaactttgc aaactcacia 480
aaattatctg aaattatctg agttttcatt tntcacctt ccagaatggg gataatgcct 540
cctgcatac 548
```

<210> 430

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 430

```
ccccgcctt cggccgcttc tgtgggagca agaagcccga gcccgctctg gccacaggca 60
gccgcatgtt cctgcgcttc tactcagata actcgggtcca gcgaaagggc ttccaggcct 120
cccacgccac agagtgcggg ggccagggtac gggcagacgt gaagaccaag gacctttact 180
cccacgcca gtttggcgac aacaactacc ctgggggtgt ggactgtgag tgggtcattg 240
tggctgagga aggctacggc gtggagctcg tggtccagac ctttgagggtg gaggaggaga 300
ccgactgcgg ctatgactac atggagctct tcgacggcta cgacagcaca gccccaggc 360
tggggcgcta ctgtggctca nggcctcctg aggagggtgta ctcggcggga gattctgctg 420
tragtcactc gatacaccat accaaaaaag gtttccacct gcgatacacc agcaccaagt 480
tccaggacac acttcacagc aggaaatgac cactggcttr acaagggccg ggactggamc 540
ctgktgcctt tngcgcctaa actggataa 569
```

<210> 431

<211> 549

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (519)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (541)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 431

```
gccggaactt ttgtcgatag gaacggggtt gcacagttga gtgttggtcgg ccggcgtgaa 60
ggagactagg gggccatcct cttcctttcg ccgtcgccgc cgcggagcgg agtcgagccg 120
agctgatttg atcgaggagc gcggttaccg gacgggctgg gtctatggtc gctccgcggg 180
ccgctccgcc ggctgggtgct tttttatcag ggcaagctgt gtcccatggc agggaaacttt 240
tggcagagct cccactattt gcaatggatt ttggataaac aagatctgtt gaaggagcgc 300
caaaaggatt taaagtttct ctcagaggaa gaatattgga agttacaaat attttttaca 360
aatgttatcc aagcattagg tgaacatctt aaattaagac aacaagttat tgccactgct 420
acggtatatt tcaagagatt ctatgccagg tattctctga aaagtataga tcctgtatta 480
atggctccta catgtgtgtt tttggcatcc aaagtagang gaaaaaaaaat tttttttttt 540
nggggggggg                                     549
```

&lt;210&gt; 432

&lt;211&gt; 1221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1160)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1183)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 432

```
cgcacttccc ctctgctggg cgcgcggtgg acggtctgaa agggagtgtt cgggtttcgc 60
tggggcctcg cggctccaga gcccagcatg gcttcctcgc gagcctcttc cacggcaacc 120
aaaactaaag caccgcgacg cttagtgtgct ccggtcgtga agaaaccaca catctattat 180
ggaagtgttg aagagaagga gagggagcgt ctggccaaag gagagtctgg gatthttgggg 240
aaagacggac ttaaagcagg gatcgaagct ggaaatatta atataacctc tggagaagtg 300
tttgaaattg aagagcatat cagcgagcga caggcagaag tattggctga gtttgagaga 360
aggaagcgag cccggcagat caatgtttcc acagatgact cagaggtcaa agcttgccct 420
agagccttgg ggaacccat cacacttttt ggagagggtc ctgctgaaag aagagaaagg 480
ttaagaaata tcctctcagt tgtcgggtact gatgccttga aaaagaccaa aaaggatgat 540
gagaagtcta aaaagtccaa agaagagtat cagcaaacct ggtatcatga aggaccaa 600
agcttgaagg tggcaagact atggattgct aattattcgt tgcccagggc aatgaaacgc 660
ttggaagagg cccgactcca taaggagatt cctgagacaa caaggacctc ccagatgcaa 720
gagctgcaca agtctctccg gtctttgaat aatttttgca gtcagattgg ggatgatcgg 780
```

cctatctcct actgtcactt tagtcccaat tccaagatgc tggccacagc ttgttggagt 840  
gggctttgca agctctgggc tgttcctgat tgcaacctcc ttcacactct tcgagggcat 900  
aacacaaatg taggagcaat tgtattccat cccaaatcca ctgtctcctt ggacccaaaa 960  
gatgtcaacc tggcctcttg tgcggctgat ggctctgtga agctttggag tctcgacagg 1020  
tgaatatcac tgttctgtgg ccatactgc catcactaaa gtagatgttt gattggttgg 1080  
tccccaggac ctcagtaaaa atctggcatt agggccatgc gcatgggctc acaccttaag 1140  
ggctgaaggc aggagaattn gcttaaaccg ggggaaatgg gangttgtgg tgagccgaga 1200  
ttgcacactg cactcccagc t 1221

<210> 433

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<400> 433

ggcacacatc accaagccca gccaaatttt gttttttttt tgtanagatg gggtttcatc 60  
acgttkccca ggctgatctc gaacctctgg gctcaagcaa ttcactcacc tcggcctccc 120  
aaaatgctgg gattacaggc ctgagccact gcgcccagcc aggatttgaa ttattttaac 180  
tcatccatgg gctgccctag aatgtcacia atgaggggtg tttaatgcct ttcttatagc 240  
tgctactgga acactattat gacctaatat atgagccatc cttactcatc tacaagtgtc 300  
gaagcaatgt tacatacttt tttgctaaac tcagattttt tagcctaatt tcttgtcctc 360  
ctatccacct gcatccacac atggcctgca tggggctgcc ttccctgcag tgttctgcag 420  
ccatgcttca gggatatagc gttggtggac agcctcaggt cttgggggca ctatagccac 480  
taaacgaggt gtgaaaggct caagaggatg accagcaatt aattatcccc agaaagtga 540  
ggaaaagaga cctttaggga tgttgctggc caagtcttga tttgaccgga gtcaaataca 600  
tcttcaagca atcttggaat cctcaactgc agtaagcatt tcaaaatgca aacaaactgc 660  
ttaacaactg acaagacacc agcccatagc ctgctcttcc aacagtgggt tctagctttg 720  
aacaaaagtg ctaaacattt ccttgaatat attcttcctc tttttgtcct catcactcaa 780  
tactggtgct cttgtcacag gtagaacagc ttgtttcttt tccatctatt caagtgtgtt 840  
tctaattcta aaatgctgat cttctctgga gtctatggta ggcaattatg gtcactggaa 900  
tagtttgtct tgttttmaaa tattattggc gcatgtacaa cagcatccaa catatctgtc 960  
ttgttcctag atatatagct ctgattttag gccttttgtg cataccatta caatatggtg 1020  
gggtaagaca ttctacagta gcctgtgctg aactgatctc ttaaataaac ttgcttctgg 1080  
ttaactaaaa aaaaaaaaaa agggcggygc ctcta 1115

<210> 434

<211> 1604

<212> DNA

<213> Homo sapiens

<400> 434

ctgctgctac tctgtttctt tcctcacttt gctttccaag gtggatatgt atccccagct 60  
caggcctgtg cagacaggaa attctccctc gcagcaagta ggggaagtgg gttgtgggat 120  
gtgacctcct tccagatatc aggcagttag tgtaaacctg ccacctccag ccctgatcca 180  
ttctcaccta gcggctacag gaagctgtgt ctgttcgatt tgggtgggagg agatgtgcag 240  
ggagctgtat cttgtcctcc gcttgtgaaa aactcaagga tgtggagaag agtagaccgt 300



ggaaccctgc tcttctgcag ccaagctgag gggcaggatg cgtgtgggac agtggttagag 360  
aagcagggga tagactcata ggctgcaaca aaggtgactc tgtccctgga cactgcctcc 420  
gtactttctc cttgcttcac tggccacagc atctccctcc agccctcgct atgtgcctct 480  
gccatcttca cccatcatgg agcagaggtg aggagaggca gcctgggaat atggagacca 540  
gtgaaggacc aggcctggag agcacagggt cctacctggg catccagcag aggagcccct 600  
aaaggccagg agcaccctaa gaggagggag ggcagccagc ctccattgac ggcgagcctc 660  
cagccctctc ctactttgat caccatttct ctccaggctt tctgcctccg agatgtggca 720  
ccatagtgcg gtgccctgtg gcttcaccgc cctacttcca cctccgcccga gcctgtaatg 780  
tttatataag cagcctcaag gaccaagaac catctgcgaa aggacacaca caggaaattc 840  
ataaaagaaa tctgaatgga taaaacctatg aaaaaaagta tgcttcatta gtaattaaag 900  
aaaggcaaat agagctggaa gcatttttcc cttagcaaac cataacagaa aaaaataaga 960  
cccaatattg gcaaagagac tactgaaaaa acattcccat acattgcgtg tgggagtata 1020  
catcgggtgca ggcttcctgg atgacagttg ggtgatatgt gtcattgtggc ctaaaagcct 1080  
ccatgtcatt tgacctacga attctatctt tgggaattta tcctaagaaa atacttaagg 1140  
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gtttggttgg gaatttattc cttttctgct gtaacgaaag tttgcaatag gggattgctt 1260  
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taaaagaaca tctgactgaa agaaaaatgc tccttgaata ttaaaagggt gtaaaaatag 1380  
tgcatgttat gtgatttcaa ttttggtttt taaaatatgg gtgtatgctt gtatacgtag 1440  
agcagataaa aaagacggaa ggcatactaa aaaatgttga gtggttatct ttgtatggtg 1500  
gaacaaagtc actgtaattt tcattctttg tttttctgta atttccaaat tttccacatt 1560  
ttgtatttca tataataaat ataatttaag aaaaaaaaaa aaaa 1604

<210> 435

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<400> 435

gaggcggtga acgagcagct ttctagcgag cgcagcaacc tggcccagggt gatccgccag 60  
gagttcgagg accggctggc agcctctgag gaggagacgc ggcaggccaa ggccgagctg 120  
gccacgctgc aggcccgcca gcagctggag ctggaggagg tgcaccggag ggtgaagaca 180  
gccctcgcga ggaaggagga ggccgtgagc agcctccgga cacaacatga ggtgagtccc 240  
tgtggccagc cctgctggac ctcggggctg ggancangcc tgacctgtg ggtgtgctgc 300  
a 301

<210> 436

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<400> 436

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aattcggcac gaggaacccc ttagtcctgg ccatttcaaa agcatcacac agaagaagac 60
cttgatatatt acatttaagt cacatatgca gctactgaca cttactagtg ctggttatagt 120
cctggctatt attccatgag gtcgtcacat tttaaccttt tgcataagcc tccaacggcc 180
tgatggaatg atgaagcctc agaacagttt ctacacaatg gctaagggat gtacccattt 240
tnaattttcc tcttttctgt gatcacagag ggtgaatacg ctttggccgg atacacagaa 300
gtgaaaactg tcacccat 318
```

<210> 437

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1795)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1826)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1844)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1855)

<223> n equals a,t,g, or c

<400> 437

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tagcccgtcg ggagcgccag gccggccagg cctgcgccgy cgccgccgcc gccgtcgccg 60
ccgcgccgac catgtcgmag ccaaggagaa cccgtgcagg aaattccagg ccaacatctt 120
```

caacaagagc aagtgtcaga actgcttcaa gccccgcgag tcgcatctgc tcaacgacga 180  
ggacctgacg caggcaaaac ccatttatgg cggttggctg ctccctggctc cagatgggac 240  
cgactttgac aaccacagtgc accggtctcg gaaatggcag cgacgggttct tcatccttta 300  
cgagcacggs ctcttgcgct acgccctgga tgagatgccc acgacccttc ctcagggcac 360  
catcaacatg aaccagtgc aagatgtggt ggatggggag ggccgcacgg gccagaagtt 420  
ctccctgtgt attctgacgc ctgagaagga gcatttcatc cgggcggaga ccaaggagat 480  
cgtcartggg tggctggaga tgctcatggt ctatccccgg accaacaagc agaatcagaa 540  
gaagaaacgg aaagtggagc cccccacacc acaggagcct gggcctgcca agtggctgtt 600  
accagcagca gcagcagcag cagcagcagc agcagcatcc ccagtgtga gaaagtcccc 660  
accaccaagt ccacactctg gcaggaagaa atgaggacca aggaccagcc agatggcagc 720  
agctgagtc agctcagagt cccagccaga gccagcctcc tgctgccagc ytctgcggga 780  
actgggctag agagcaaaga agaggagagc gccatgagta gcgaccgcat ggactgtggc 840  
cgcaaagtcc ggggtggagag cggctacttc tctctggaga agaccaaaca ggacttgaag 900  
gctgaagaac agcagctgcc cccgcgcgtc tcccctccca gccccagcac cccaaccac 960  
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gagaccaatg cagtggggcc ctcaccatcc agcgacacac gccagggccg cagcgagaag 1080  
agggcgttcc cttaggaagcg ggacttcacc aatgaagccc cccagctcc tctcccagac 1140  
gcctcggtt cccccctgtc tccacaccga agagccaagt cactggacag gaggtccacg 1200  
gagccctccg tgacgcccga cctgctgaat ttcaagaaag gctggctgac taagcagtat 1260  
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tacgatgtca cagagtatcc agttcagaga aactatggct tccagatata taaaaggag 1440  
ggcgagttta ccctgtcggc catgacatct gggattcggc ggaactggat ccagaccatc 1500  
atgaagcacg tgcacccgac cactgccccg gatgtgacca gctcgttgcc agaggaaaaa 1560  
aacaagagca gctgctcttt ttgagacctg cccgaggcct actgagaagc aagaggcaga 1620  
gctgggggag ccggaccctg agcagaagag gagccgcgca cgggagcgga ggcagagggc 1680  
cgctccaaga cctttgactg ggctgagttc cgtcccatcc agcaggccct ggctcaggag 1740  
cgggtgggag gcgtggggcc tgctgacacc cacgagcccc tgcgccctga ggngnasctg 1800  
gggaagctgg agcggganag tgacngaag cgggaggagc gccncaagcg cttcnggatg 1860  
ctcgacgcca cagaacgggc ca 1882

<210> 438

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

&lt;400&gt; 438

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gattcagctt aacccgtgat cttcttaagt taaaggactt tttgttttat aaaagctcta 60
gataaaactt tcttttctga tcatgaatca agtatctgtg gtttcatgcc cctctctata 120
cctttcaaag aactcctgaa gcaacttaac tcatcatttc agcctctgag tagaggtaaa 180
acctatgtgt acttctgttt atgatccata ttgatattta tgacatgaac acagaatagt 240
accttacatt tgctaaacag acagttaata tcaaatacct tcaatattct gggaacccag 300
ggaagttttt aaaaatgtca ttactttcaa aggaacagaa gtagttaacc aaactaacia 360
gcaaaacctg aggtttacct agtgacacca aattatcggt attttaactg aatttaccga 420
ttgactaaga atgaaccaga tttggtggtg gttttgtttc tatgcaaact ggacacaaat 480
tacaacagta aattttttta taagtgtctt tcccttctcc atgatgtgac ttccggagat 540
aaaggattca aaagataaag acaaagtacg ctacagagttg ttaaccagaa agtcctggct 600
gtggttgagc aaacactgtt ggaagaaaag agatgactaa gtcaagtgtc tgccttatca 660
aaagagcaaa aatgcctctg gttttgtgtt tgggagaaaa atatcttgga cgcactgttt 720
tccttgataa aagtcattct ctctactgtg tgaaatgaat acttggaatt ctaattgttt 780
tgtgtgccag gggcagtaat gtccctgcct cttctcccaa tcaagggtga ggagtggggc 840
tggggagagg acttaactga cttaagaagt agggaaaaca aaaacctctc tcctcagcct 900
tccacctcca agagaggagg aaaaacagtt gtctgtgtgc tgtaattcag tttgcgtgta 960
ttttatgctc atgcaccaac ccatacagag taaatctttt atcaactata tactgggtgtt 1020
taatagagaa tgattgtctt ccgagttttt tgggtccttt tttaactgtg ttaaagtact 1080
tgaaatgtat tgactgctga ctatatttta aaaacaaaat gaaataattt gagttgtatt 1140
acagagggtg acattgttca gggatgggac aaagccttct tcaatccttt tcatactact 1200
taatgatttt ggtgcaggaa cctgagattt tctgatttat atttcatgat atttcacatt 1260
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atattttgta gcacctcact atctgaaagg ccatgagttt tcagatgatt tcattgagct 1380
tcattgcagc ctgaaatttt aaaaaagttg tgtaatacgc caaccagtca agttgtgttt 1440
tggccagaga tttagatatg tccaatttcc tggctcattt cattgtgtct tatgggtacg 1500
tataaaaagc aagaattctg tttcctaggc aaacattgca actcagggct aaagtcattc 1560
agtgaacttt ttagagccag aagtaacttt gtcccagttc tacaatgtga aaagagtga 1620
tagttgcctc tttttagcca ttttcatggc tgggtacatat tcgtacgcat tacttttcag 1680
aatcaatagc cactttcaga tattcttatt tttattctct taagtcttta ttaacttttg 1740
agagagaaat gatgcattct tttattttta atgaagtaga tcaacatggt ggaacaaaat 1800
gataaagaac agaaaacatt tcaatatatt actaataact ttttccaata taaatcctaa 1860
aattcctata acatagttat ttacagtttt atgaagcttt ctattgtgac ttttatggaa 1920
ttaagagatg aagaagatga gatatttttag catttatatt tttcaaaatt atatgtatac 1980
ttaaaaataa agtaacttta tgcatttaaa aaaaaaaaaa agggsgggcc gtttttagagg 2040
atccangttt acnncc 2056
```

&lt;210&gt; 439

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (688)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 439

```
ggcggcgagg rcaggtcgga gctcggagct gctgcttctg gttctcttgt ggccgcccgc 60
gctgtccggc tgccttgggc tgccgaacag acaaggcgtg ggccacagca cctcagaagc 120
cgacgcagct cgacgcaggg gccggcagga ggggtgggca tcgcgtgtcg gagggcgccc 180
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cgcgggagcagg cgggaggggag ccagagggggg aaagagggcgg gggcgggaggg tcagccgctg 240  
gccggggccgg cgggggaatg tcgatgcccg acgcgatgcc gctgcccggg gtcggggagg 300  
agctgaagca ggccaaggag atcgaggacg ccgagaagta ctccttcag gccaccgtca 360  
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<210> 440

<211> 1041

<212> DNA

<213> Homo sapiens

<220>

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<222> (1025)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1039)

<223> n equals a,t,g, or c

<400> 440

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aaaancccn ggggggggnc c 1041

<210> 441  
<211> 1995  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1957)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1992)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

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gctgatcaaa tncan 1995

<210> 442

<211> 1723

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 1899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<400> 443

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aaaaaaaaaa aaaccccnng gggggcccgg taccaattc 1899
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<210> 444

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (413)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 444

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tagggcagtg                                     430
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&lt;210&gt; 445

&lt;211&gt; 2153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (166)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 445

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<210> 446

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 446

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gatgacgtcc agggctatgc ccgcaagccc gtctcccgtc acctgtgtga gctgctggca 420  
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<210> 447

<211> 1539

<212> DNA

<213> Homo sapiens

<220>  
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<222> (1)  
<223> n equals a,t,g, or c

<220>  
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<222> (20)  
<223> n equals a,t,g, or c

<220>  
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<222> (25)  
<223> n equals a,t,g, or c

<400> 447  
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<210> 448  
<211> 3983  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1010)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3067)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3255)

<223> n equals a,t,g, or c

<400> 448

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&lt;210&gt; 449

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 449

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<210> 450

<211> 2428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2037)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2343)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (2348)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2375)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2387)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2420)  
<223> n equals a,t,g, or c

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&lt;210&gt; 451

&lt;211&gt; 2485

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (222)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 451

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<210> 452

<211> 963

<212> DNA

<213> Homo sapiens

<400> 452

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<210> 453

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

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<220>

<221> misc feature

<222> (540)

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<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 453

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cagt 604
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<210> 454

<211> 1917

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<400> 454

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&lt;210&gt; 455

&lt;211&gt; 1538

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

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cagagactgt aaaaaaaaaa aaaaaaaaaa gggcggcc 1538

<210> 456

<211> 2189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 456

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ttctttttat ttttccttaa atcttacttg tttctagcgt ctttaagagt gtaatggtaa 180  
aatgtgaagt tacaataaac ttctgcttgt tttctcagaa catctttggc atgaggaaga 240  
actttttgtg aatgatacag tagtctcagc atctgttaat ttgtggtttt caaagcattt 300  
ttgacagagt ttacctaatg taaaaagatt aaacagtttt ataaaacaca aataaacatt 360  
cctacctgaa ctgtgaggaa cagagtgtat agtacaaatg taattaggca ttgcctcctg 420  
gcgaggttct tgatgcatga cttcgatgct ggctgctgac tgaggtgacc actgtcagta 480  
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aaaccttttta tctcctaaaa aaaaaaaaaa 2189

<210> 457

<211> 1399

<212> DNA

<213> Homo sapiens

<400> 457

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gtgcgctcca ccacccccaa gagtgtggcc atctggggcc gtgtggtatt tgccactcag 120  
gagacatgtc cctatgacat agcagtgggtg agcctggagg aggacctgga tgatgtcccc 180  
atccctgtgc ccgctgagca cttccatgaa ggcgaggctg tgagtgtggt gggctttggc 240  
gtctttggcc agtcttgcg gcccctcgggtg acctcaggca tcctttcggc tgtggtgcag 300  
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ggacccctct tctccaacca ctcaggaaac ctcttggca taatcaccag caacacccgg 420  
gacaataata cggggggccac ctacccccac ctgaacttca gcattcccat cacggtgctc 480  
cagccggccc tgcagcagta cagccagacc caagacctag gtggcctccg tgagctggac 540  
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ctattgaaaa accwcwrtat ttatatattca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380  
aaaaaaaaaa aaaaaaaaaa 1399

<210> 458

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 458

cacgagcggc cacgagattt aatgtttcca aggttagacg ttcacttttt gagacgnntg 60  
agtagctttt cacttaattg actagcatgt atgggtttct ttaccagggt ccacaattca 120  
ctacacaggc ccagaaaaaa agctgatctc tgaaaagcac taggagaagg cagctagaga 180  
gggagaattc taattaggcc ggggtcctct gtggcttgaa tgactgaata agtttttata 240  
gtcttcaatt cagtgaattc cagattcttc ccaaagaaat ttctagrgat caagagtagg 300



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ctcttttcgga agtacttgcc cgtattacac tttaatttta caaaccaaac aacagcaatt 360
caaccaatca aacaacaaaa acaatccaaa gaaagagact tggacatagg catcaaggaa 420
tcatttcact ttataattta atagaacact ggtgtatcat tcattaattc tgaaagtgag 480
aactaaatgt aaaataattt tgtaagggtt gtgaattggt gcctagggtat tctgggtgatg 540
tttacttttag tgattttatc attaatgaaa gcaatgtggt tttttagaaa acatattatt 600
agggttcata acgttgacat tctgttggtg caatcataat ctctgtttt gtttttagtcc 660
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```

<210> 459

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> i. equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<400> 459

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actgcatgct ggtaagcaac cgcgtntccc tgggtggggga gcacgctggc catgctgcag 120
cgccttcaag gagcagcagt tcgtnatcgc cggggtcttg gtggaggaca gcaacaacca 180
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gggctgctgg acaagggtcaa agacggcggc taccggccgg ctgaggacaa gatcttccc 600
gtgcccagag agcctcccgt caagaagctc atgcggacat ccacgccgcc gcccgccagc 660
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gagtggcatg cccagggtggt ggaggagctg agcaacttca agtcccagaa ggtgcttggc 780
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attcgagaag tgagagaggg tcg 1283

```

<210> 460

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<400> 460

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tcgacccacg cgtccgcaag tacaaaaacc ttaagtttca tttgtagggc cacagatcat 60
agaatttcaa atgacatatt acatagtttg taaatgtata tatttggttg actgaaactt 120
aatcataatt tagttcttaa aactatgtgg cttgaagtgg caagtagcaa gtactgattt 180
taccagattc aagttgattt ttaaaagtaa ccattggaga aatcggtata catttggttg 240
caggattttt acctcctata actccaccag aaaagttttt tctttcccag ctgatgctgg 300
cacccccacg ggaactcttc aaaaagacgc ctcgccagat tgcactgatg gacgttgga 360
acatgggcca gtctgtggam attagtgggc tcagttagcc ttggccggta aggrggaayc 420
agtgtttggg nattc 435
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<210> 461

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<400> 461

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tgatgcctgc atgtgggtac ctgggctcca tcaggttcta gatcggcctc cgccctccac 120
tttcagggtc ccaggccnag cttctcatgt ctgtggggag ggtctccaga gccttggtct 180
gtggctgagc tgtggaactt gaaggcctct ctgcatcttg tcaactcgtg cccctgcacc 240
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gtaacaggac gtgaggtgcc ctctgcgcgc tgtgggcgcg tgcggggaga cccgggcccc 360
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agcggggccc cgagacattc tgcactcggg aattgcgggg attatcaaatt cccgcttcag 480
tgggaaacgt gagcgaaacc caaggtgagt ggccgcagcc ttctgtcacg tgctctcccg 540
catgtcctaa gtragggtc aggtgagct gccgttgccg agagccttgt gtctgcttcg 600
ggtgtctgca ctgtgagtgg ctccgtgctr gcgtccgcac cagccgcttg gggc 654
```

<210> 462

<211> 2245

<212> DNA

<213> Homo sapiens

<400> 462

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aattaccggt tcgacccacg cgtccattgt cccaatgtgc ccggctcagc ctgaggaagc 60
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gcacccgcct ggcccgcag acccaccctg ccaacatcaa gttgttcctt ctgctccgga 180
gacccctggg gtgcggccct ggccccctcc acccctgctg ggccagagcg ggtgggcagt 240
gtcaaggccc gctgtctccc aggtgcttgc tgggactcgg ggccgctgca cctggctgtc 300
acctgggtgt gctgctgtga ggggtccttg cgtggccccc atccttcccc caatgcagaa 360
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ctccatgggc agggagctgg ggggacatct cacctcccc atggcacaga gccctccaca 420  
cccctggacc agggcatccg ggccctagaa attccacagc tcccgctctg gccaccctgg 480  
aagctcatca ggccaagacc cggacagagc ttcagaggag tggtgagtga cacctgagga 540  
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tccccacct gcccttctg ggtgacacag ccggtaaacg gaatcacgta tgggtctttc 2040  
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catgggtggt cccacagcat gggaccaggc tggcctgagg gatgccagc tgtaacaatg 2160  
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aaaaaaaaaa aaaaaaaaaa aaaaaa 2245

<210> 463

<211> 1280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<400> 463

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caggaaaatg ctgtccagtg ggggtgtgtac atcaactgtt cagcttcctg ggaaagtagt 180
tgtggtcaca ggagctaata caggtatcgg gaaggagaca gccaaagagc tggctcagag 240
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<210> 464

<211> 2431

<212> DNA

<213> Homo sapiens

<400> 464

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agctgagcgc ttaagagtga atttgagatt agtcataaat cgccttaaac tattggagaa 180
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2431

&lt;210&gt; 465

&lt;211&gt; 589

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

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acaaaaacag aggggtgagac agaagtgaag aaagatgagg ccggagaaaa ctattccaag 180  
gatcaagggt gtcggacatt gtgtggtgta atgaggattg gcctgggttg aaaaggcttg 240  
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cccacgctaa ctttgaagggt gatacttacc tcacctctaa ttagggacga attggagaag 480  
aaggatggag aaaatgtttc gatgaaagat cctccggact tattggayag gcagaaatgc 540  
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&lt;210&gt; 466

&lt;211&gt; 1107

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature

<222> (1099)

<223> n equals a,t,g, or c

<400> 466

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ggacaccggc ggagcctccc cgcccccgcg gaagaaaccc cgccagcaac aatagcaaca 120
gcctgaatgt caataacggg gttccccggcg gggcgggcgc cgcctcctca gccaccgtcg 180
cagctgcctc cgccaccacc gccgcctcct ctctccttggc caccaccagaa ctgggcagca 240
gcctcaagaa gaagaagcgg ctctcccagt cagatgagga tgtcattagg ctaataggac 300
agcacttgaa tggcttaggg ctcaaccaga ctgttgatct cctcatgcaa gagtcaggat 360
gtcgtttaga acatccttct gctaccaaata tccgaaatca tgtcatggaa ggagactggg 420
ataaggcaga aaatgacctg aatgaactaa agcctttagt gcattctcct catgctattg 480
tggttaagagg cgcacttgaa atctctcaaa cggttggtggg aataattgtg aggatgaagt 540
ttttgctgct gcagcagaag tacctagaat acctggagga tggcaaggtc ctggaggcac 600
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ttagtgggta tctgatgtgt agccatgcag aagacctacg tgcaaaagca gaatgggaag 720
gcaaagggac agcttcccga tctaaactat tggataaact tcagacctat ttaccaccat 780
cagtgatgct tccccacgg cgtttacaga ctctcctgcg gcaggcgggtg gaactacaaa 840
gggatcggtg cctatatcac aataccaaac ttgataataa tctagattct gtgtctctgc 900
ttatagacca tgtttgtagt aagaggcagt tcccatgktt atacgcagca gatacttacg 960
gaagcattgt tatgaatttt ggttcctgtt aattcctcct aatgaatggc acttaaactt 1020
agcaaccagg atcccaaaag atacaaccag tttattcata ttggcaattt ttgaatcccc 1080
ggaatacaca ccctgcttna aacttgc 1107
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<210> 467

<211> 2197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<400> 467

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ccgccaatga aacgcctccc gctcctagtg gttttttcca ctttggtgaa ttgttcctat 120
actcaaaatt gcaccaagac accttgctct ccaaatagcaa aatgtgaaat acgcaatgga 180
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tttatcacta atgatggrac cgtctgtata gaaaatgtgr atgcaaactg ccatttagat 420
aatgtctgta tagctgcaaa tattaataaa actttaacaa aaatcagatc cataaaagaa 480
cctgtggctt tgctacaaga agtctataga aattctgtga cagatctttc accaacagat 540
ataattacat atatagaaat attagctgaa tcatcttcat tactagggtta caagaacaac 600
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aataattttg ttcaaaggga tacatttgta gtttgggaca agttatctgt gaatcatagg 720
agaacacatc ttacaaaact catgcacact gttgaacaag ctactttaag gatatcccag 780
agcttccaaa agaccacaga gtttgataca aattcaacgg atatagctct caaagttyc 840
tttttngatt catataacat gaaacatatt catcctcata tgaatatgga tggagactac 900
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&lt;210&gt; 468

&lt;211&gt; 3611

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3574)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3581)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 468

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ctggttctgt tggtactcct gccgactgca gtgctgttcc gtgagcttct tgaatgacat 60
cgtacagtat ctccgacgca cagggttcat agtggcgtca tgcacgcaga ctctgcaag 120
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&lt;210&gt; 469

<211> 520

<212> DNA

<213> Homo sapiens

<400> 469

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cttgatgagg tgagggttgag atatggttgt agtaggatgt gactttcatg ctttcagcaa 180
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<210> 470

<211> 879

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<400> 470

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gaaaacccgg cgccgtcatc gagagctttg tgaatcacgc cccggggggtc ttctcaggga 180
ccttctctgg cacgctacac cccaactgcc aagacagcag cgggcggccg cggcgtgaca 240
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aaggcgggcg cagcgacagc agtagcagcg ggggcggcgg caccgaagcg caggcctccg 660
gcttgggact cgacttcgag gagctccgta tggaagccag aagtcaacc tgacatcaag 720
tcaaagttcg tgggtgggctt aggatctctc ggatcggcca aacttcggcc ctcgcaaccg 780
cagccccagg gcggcgggcg aattcgcaga accccggaaa agaaagttga ccagcccttg 840
caaggagagc gggcaattcc cgcagtcaag acaggttgc 879
```

<210> 471

<211> 2557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (461)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 471

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gctccaccac	caatgtctca	gtctacctgt	tcccttcatt	ccatccactc	tgagtggcaa	120
naaaggcccc	tgtgtgagca	cacaagaact	ctgagcactc	acagtgttcc	caacatatca	180
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acctaccctt	accgagtgtg	ctctgtgaat	cctccttcag	ccatagaaat	gcagttgcga	300
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<210> 474

<211> 1258

<212> DNA

<213> Homo sapiens

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<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<400> 474

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<211> 4231
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<222> (4167)
<223> n equals a,t,g, or c

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<222> (4184)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (4223)
<223> n equals a,t,g, or c

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<210> 477  
<211> 1418  
<212> DNA  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<222> (1127)

<223> n equals a,t,g, or c

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<222> (1289)

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<220>

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<222> (1400)

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gcnatccagg gtctggmaga rcytctgaga tgatgcatga tgcccttccc tcagcgcagg 1200  
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<210> 478

<211> 1237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1232)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<400> 478

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<210> 479

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 479

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<210> 480

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 480

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gggckcscgg gatggggaat cgtgtggccg tgggagctgc ggggcagccg ggctgagcgc 480  
tggtcgggg acttgagggg caaggccgcg cgcctcatct acacagcgat gctcagcacc 540  
gcatctcact cggagtaaac gcaagtcctt agtgtgctgc gcggtgggtc tgcccttctc 600  
atcggcctct gtccctgcgc ctccttctc ctttgcggt cttcaacgtg ctaggcactc 660  
ccccactcgc tccctctcct ttcc 684

<210> 481

<211> 2995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 481

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atgcatgtaa aaagaaagca actccatcaa ctactaccta atcatgtgct tcagaaaaag 180  
aaaaagcatt caacagaagg tgtcaaattg acagctctca atgacagcag cctcgacttg 240  
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cctagatctt caggaaatgc agcaacttca ggaaatgcag caacaaaaat acctactcct 600  
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<210> 482  
<211> 1248  
<212> DNA  
<213> Homo sapiens

<400> 482

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gcatgacttt gaaaaaggga agccattccg agattttaaa atgttcatgg actattccat 1140
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tcagaaaaga agaaagtcaa aaataaaaact tttgtgtatt acagcaaa 1248
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<210> 483  
<211> 1862  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<400> 483

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ccancgggaa ccactatctc tgcactcctg gggttttggt acatggctgc tttcctcaaa 180
atgagtgtta gtgtcaattt cttcagacct ttcaccaggt ttttggtgcc atttaccctt 240
cataggaaga gaaataactt aacaattttg cagagataca tgtcttccaa aataccagct 300
gttacttatc ctaaaaatga gagtacaccc cttctggaag agctagagtt ggataagtgg 360
aaaactacca tgaaatctag tgtgcaagaa gaatgtgttt caacaatctc aagcagtaag 420
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gaagtaccag aacacatcac tgaagaagag ctcaaaaccc ttatggaatg tgtttctaac 540
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caaataaaaa aggaaatgaa agcagcagca agggaagaag caaaaaatat caagctgcta 660
gaaaccactg aggaagataa acagaaaaac tttctatttt tacgactttg ggataggaat 720
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aa 1862

&lt;210&gt; 484

&lt;211&gt; 1664

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 484

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<210> 485

<211> 969

<212> DNA

<213> Homo sapiens

<400> 485

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cagagacggc tgtccgcccg ctgggcgcgc ctgcggattt ggtaaataagg aggtgacgct 120  
ggtagaccgag agccgggggc cgctgccagg agcctgggcg agggccaggc tggctttgct 180  
acagctgacc actccgggtca ggagagagag actgagaagg ctatggatcg actagcccgt 240  
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<210> 486

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (823)

<223> n equals a,t,g, or c

<400> 486

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<210> 487

<211> 1451

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<400> 487

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ccagactgca gcctggccca tggctgtttt cccaaggatc agttcctgga gggaagggct 180  
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aaaaaaaaa a 1451

<210> 488

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 488

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tccagtgcag gggcgtagtg ggatatggcc aactcggggt gcaaggacgt cacgggtcca 180  
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gattatttgc atgggtgcaa aagaaaatgg tttgccgctg gagtatcaag agaagttaaa 480  
agcaatagaa ccaaattgact atacaggaaa ggtctcagaa gaaattgaag acatcatcaa 540  
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<210> 489  
<211> 285  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (21)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<400> 489  
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tcagcctcct gaagacactg aacaccgcag tgttttccag tcagcaacgc aacaaaatca 180  
gtttaagtga taatgacaat aacaaacaat ccatagcatc cacagcattc actgcttact 240  
gnaaaactta ctatgtccca ggcacaagca ctgactttaa tcttg 285

<210> 490  
<211> 682  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (57)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (62)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<400> 490  
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cggcccttct gctgcacaca gccacccag gacctccgc agcgtgaca ggcggggcg 180  
gtgcaaagac ggggcggggt ctctgcgccc ggccccctcc cctgactatc aaagcagcgg 240  
ccggtgtgtg ggggtccacca cgccttccac ctgccccact gcttcttcgc ttctctcttg 300  
gaaagtccag tctctcctcg gcttgcaatg gaccccaact gctcctgcgc cgctgggtgtc 360  
tcctgcacct gcgctggttc ctgcaagtgc aaagagtgc aatgcacctc ctgcaagaag 420  
agctgctgct cctgctgccc cgtggggtgt agcaagtgtg cccagggctg tgtttgcaaa 480

ggggcgctcag agaagtgcag ctgctgcgac tgatgccagg acaacctttc tcccagatgt 540  
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cattcctttt cctgtgaaat atgtgagtga taattaaaca ctttagacct gaaaaaaaaa 660  
aaaaaaaaaa aaaaaaaaaa aa 682

<210> 491

<211> 1859

<212> DNA

<213> Homo sapiens

<400> 491

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aaaaaatgaa agacgctctg tttaaaacaa tgatgacagc agtacttaat atgtatttcg 180  
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<210> 492

<211> 2709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 492

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<210> 493



<211> 1451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1307)  
<223> n equals a,t,g, or c

<400> 493  
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atgacaaagg tagaaaaaag cacaaatgaa gcaatggagt ggatgaataa caagctaaat 180  
ctgcagaaca agcagagttt gaccatggat ccagtgtgca agtcaaaaga gattgaagct 240  
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gggtgcggcg aagccacgtg cttctagctc gacgtgtgtt cgcaaacggc ggcttcgtac 1440  
tcaattcgca c 1451

<210> 494  
<211> 1268  
<212> DNA  
<213> Homo sapiens

<400> 494  
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gtgaagtcca aggacgctgg tcttctttct ccctttgtag agtgaggatg aagctctgca 180  
gcggggccctg gaaatgtccc tggcagaaac caaacccag gttccaaggt acctaccct 240  
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tactaatacc cacctttagt tgttgctatg aagattgaga taatcctcag cagtgtcag 480  
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&lt;210&gt; 495

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (360)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (382)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 495

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atttttaatt aatttccttt gnga                                     384

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&lt;210&gt; 496

&lt;211&gt; 975

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 496

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&lt;210&gt; 497

&lt;211&gt; 2075

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

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2075

<210> 498

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 498

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<210> 499

<211> 2871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1642)

&lt;223&gt; n. equals a,t,g, or c

&lt;400&gt; 499

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<210> 500

<211> 1624

<212> DNA

<213> Homo sapiens

<400> 500

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<210> 501

<211> 848

<212> DNA

<213> Homo sapiens

<400> 501

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<210> 502

<211> 3192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3085)

<223> n equals a,t,g, or c

<400> 502

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<210> 503

<211> 683

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (622)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 503

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ggggcgagsg gcaagatggc agaagtagag cagaagaaga agcggacctt ccgcaagtgc 180  
acctaccgcg gcgtggacct cgaccagctg ctggacatgt cctacgagca gctgatgcag 240  
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gctgaagcgc ctgcgcaagg ccaagaagga ggcgccgccc atggagaagc cggaagtggc 360  
gaagacgcac ctgcgggaca tgatcatcct acccgagatg gtgggcagca tgggtgggcgt 420  
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sctgctgcaa ctctactctc tcc 683

<210> 504

<211> 2196

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<400> 504

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gcctaaactt ggggtttctg tggttcataa agttgggata trtwtttttt ttcaaatgga 180  
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ccaaagattt tcccaaaga atagacattt tttcctctca tcacttctag atgcaaaatc 300  
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tccccattcc acacgatctt gagtagcaca cggttatgktc gkttcctccg aagaktgttg 420  
tattwgggtc tgaragscag aggggctkgg aaagacttgt tatagtccgt ktgggaatga 480  
gagaagtcgg tgcagawtag taaacgggag tctgtttccc acagggtccc tccccctgag 540  
cccattctaca atagcgaggg gaagcgggctt aacacccgag agttccgcac ccgcaaaaag 600  
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&lt;210&gt; 505

&lt;211&gt; 949

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 505

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ccgccattc cccacccgg catgcctcca gttggggggc tggggcgggc agcctggcat 180
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taaaagcagt tctgaaacta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 949

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&lt;210&gt; 506

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<400> 506

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tactatcgcc gcgacgttga actcaaccag acgctggatc gcgaacaagc catcgagatg 180
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aagcctctgc gggaagtccg ccatgttctt cgagatatcc ggtacccaat tcgccctata 300
gtgagtcgta ttacaattca ctggccgctc ttttacaacg tcgtgactgg gaaaacgann 360
nagga 365
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<210> 507

<211> 2059

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 507

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cgtagtgtgg gtgactcctc cgttccttgg gtcccgtcgt ctgtgatact gcagygcagc 120
catggcagaa ccgcagcccc cgtccggcgg cctcacggac gagggccgcc tcagttgctg 180
ctccgacgcg gaccccagta ccaaggattt tctattgcag cagaccatgc tacgagtga 240
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atgtgatttt cccattatga agtttttact ctacttcttg gcttatgagg ataaaaatga 360
catccctaaa gaaaaagatg aaaaaatagc ctggggcgtc tccagaaaag ctacacttga 420
gctgacacac aattggggca ctgaagatga tgmgaaccag agttaccaca atggcaattc 480
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agaccctcga ggattcgggtc atattggaat tgctgttcct gatgtatata gtgcttgtaa 540
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aactcgagac tagttctcc 2059
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<210> 508

<211> 1337

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 508

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ctgaccgtgg tggattttga taagtctctc cgccactgtg tcattgggaa agtttctgtg 120
cctttgtgtg aagttgacct ggtcaagggc gggcactggt ggaaggcgct gattcccagt 180
tctcagaatg aagtggagct gggggagctg cttctgtcac tgaattatct cccaagtgtc 240
ggcagactga atgttgatgt cattcgagcc aagcaacttc ttcagacaga tgtgagccaa 300
ggttcagacc cctttgtgaa aatccagctg gtgcatggac tcaaacttgt gaaaaccaag 360
aagacgtcct tcttaagggg cacaattgat cctttctaca atgaatcctt cagcttcaaa 420
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gttccccaag aagaactgga aaatgccagc ctagtggtta cagttttcgg ccacaacatg 480  
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gagaccaacc actggaggcg catgctcaac acgcaccgca cagccgtgga gcagtggcat 600  
agcctgaggt cccgagctga gtgtgaccgc gtgtctcctg cctccctgga ggtgacctga 660  
gggctgcagg gaaggcagct ttcatttggt taaaaaaaaa aaaaaaaaaa gacggaaaaa 720  
aatgtntcac atactattac atccacacct gcatacacac tcgcaacatg tntacacacg 780  
tccacacaca cagacacaca gataccccaa atcctctcag aactgagagg aagctgacta 840  
ttgatcacia aatggccgcc ctgagtgagt gaggcctagg aactttccag aagcccatc 900  
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gtaaatgtga taactagatt atgggccatt tggagaaacc aaatggcaac caaaactatt 1260  
ccagtgtcag aagcctttcc tggcttaaca gaattgttct tgtgttagct catcccaggg 1320  
aacgcctgt gggtatg 1337

<210> 509

<211> 731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<400> 509

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gaattttgct aaagttaact gtaaagaaac acctgctgac ttgcagttaa aggggaatct 120  
attctcccca tttccaaacc atgatatgaa tgggcgctga catgtggaga gaatagataa 180  
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tgaatttaat agcattaaga ttaccttcaa atgaaaaaaaa atctcaaaat ttctatttgg 300  
tttttgtgca ttttctttta aaatgtaate atatgatttt agtgtgttag acttgctgag 360  
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ccatagggtt tgggtgtaaa gaatgtttac tgccctccat tttaaattctg aaaagggatg 480  
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ccattaagcc tgctatatct gagcaatta atgggtacct ttttttctt atttaaagca 600  
caagaggccc ataaatcttg agttacttta aattcttttt tttgatacaa gttttcagag 660  
caagagaata aaaatcatgt gttattaaac ccctaaaaaa aaaaaaaaaa acccgggggn 720  
cttcttgggg g 731



<210> 510  
<211> 944  
<212> DNA  
<213> Homo sapiens

<400> 510  
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ctctgcacac agcgtggact cggaggacat gtacgcagac ytggctagcc ccgtgtcctc 180  
agccagctct cgggtccccgg cccagccca gaccaggaa gagaaaggaa aatctaagaa 240  
agaagacggg gttaaagagg aaaagcggaa aagggattcg tccacacaac cacccaaattc 300  
tgcaaaacct ccagcagggg ggaagtcctc ccagcagccc tcgacacccc agcaggcacc 360  
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gaataaggcg gctgataaag gaagcaggaa gcgctatgaa ccatcagaca aggacaggca 480  
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gtcagggtkcg agactgggct ccccgaaagg agaycggcag agaggccaga actccaaagc 600  
ccctgcagcc ccggctgaca ggaagcgcca gctgtcacc cagtccaaga gctccagcaa 660  
ggtcacgagc gtgcccggca aagcctcgga tcccggcgcc gccagacca aatcagggaa 720  
ggccagcacg ctgtctcggc gggaggagct gctgaaacag ctgaaggccg tggaggatgc 780  
tattgcacgc aagcggggca agatccccgg gaaagcatag gccgtgcccc gaccggactg 840  
gacgcatttt tatacatagg gtaagcgcag ccatttttga ttttgagtt aatgtcttat 900  
tttggctgtg attcttttta aaaagtaaaa aagaaaaaaa agtt 944

<210> 511  
<211> 517  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (449)  
<223> n equals a,t,g, or c

<400> 511  
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tccttttcctt ctgccacggc gggatcgggc actcaccag ttgcaagtgc gagcactatg 120  
gagtagcgca ggggtctcag ctgtggccgt ggacttaggc aacaggaaat tagaaatatc 180  
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agtaatgggt acagcgggtca gtaaaacaaa accttcccct tcccagttta tgcctttggt 300  
ggttgactac agacaaaaag ctgctgcagc aggtagaatt cccacaaact atctgagaag 360  
agagrttggt acttctgata aagaaattct aacaagtcga ataataagatc gttcaattag 420  
accgctyttt cmagctggct acttctatna tacacaggtt ctgtgtaatc tgttagcagt 480  
agatgggtgta aattgagcct gatgtcctag gaattaa 517

<210> 512  
<211> 3651  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3650)

<223> n equals a,t,g, or c

<400> 512

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&lt;210&gt; 513

&lt;211&gt; 1936

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 513

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1936

&lt;210&gt; 514

&lt;211&gt; 1177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (24)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 514

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1177

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&lt;211&gt; 932

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <222> (911)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (912)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (921)  
 <223> n equals a,t,g, or c

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 <212> DNA  
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&lt;210&gt; 517

&lt;211&gt; 2451

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 517

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<211> 989

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (871)

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<222> (891)

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<222> (910)

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<222> (913)

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<222> (926)

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&lt;221&gt; misc feature

&lt;222&gt; (947)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 518

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&lt;212&gt; DNA

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<213> Homo sapiens

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 <211> 794  
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 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (782)  
 <223> n equals a,t,g, or c

<400> 525  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

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<221> misc feature

<222> (2475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<400> 526

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<210> 527

<211> 1305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<400> 527

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<210> 528

<211> 1631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1628)

<223> n equals a,t,g, or c

<400> 528

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<210> 529

<211> 1944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<400> 529

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<210> 530

<211> 1425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 530

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&lt;210&gt; 531

&lt;211&gt; 1466

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 531

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&lt;210&gt; 532

&lt;211&gt; 1658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 532

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ccccgcggcg cggccgcagg gccatgctag ccttgccggt ggccgcggcg tcgtgggggg 180  
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&lt;210&gt; 533

&lt;211&gt; 2857

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 533

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<210> 534

<211> 1335

<212> DNA

<213> Homo sapiens

<220>

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<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<400> 534

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&lt;210&gt; 535

&lt;211&gt; 2818

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

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&lt;210&gt; 536

&lt;211&gt; 1397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1122)  
<223> n equals a,t,g, or c

<220>  
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<222> (1137)  
<223> n equals a,t,g, or c

<220>  
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<213> Homo sapiens

<220>  
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<222> (147)  
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<212> DNA  
<213> Homo sapiens

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cacctgcccc ctaataaagt gggcgcgaga ggaaaaaaaa aaaaraaaaa aaaagttct 1679

<210> 540

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (978)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1067)

<223> n equals a,t,g, or c

<400> 540

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acaacattaa tgagaggacc acctgggtgc agaagatcaa ggcggcgtct gagcagtaca 180  
tcgacaccga gaagaagaag cgtgagaaag cttaccaagc ccgctcccaa aagacttcag 240  
gcattggggc cctgatgggtg catgtcattg aagctacaga attaaaagcc tgcaaaccaa 300  
atggaaagag caaccatac tgtgaaatca gcatgggctc ccagagctac accaccagga 360  
ccatccagga cacactcaat cccaagtgga attttaactg ccagttcttt attaaggatc 420

tctaccaaga cgtgctgtgt ctcaccctgt ttgacagaga ccagttttca ccagatgatt 480  
tcctgggtcg tactgaaatt ccagtggcaa aaattcgaac agaacaggaa agcaaaggcc 540  
ctatgacccg ccgactgctg ctgcatgagg tccccaccgg ggaggctctg gtccgttttg 600  
acctgcagct ttttgagcaa aaaactctcc tgtaggggtt ctaaaggaca gcaccagcgg 660  
gacagcccac aaggctgggg ctggagaatg agagactgcg ctctcttggg gctgagggag 720  
caccatgcag cttcaccctt caciaagcca tgcacgctgg gggctctgtt ttcctgcaca 780  
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tttcagggct ataaaaagta ttacttggga aatgagggca tcagaccacc agatgttacc 960  
gytcgggtgn aatgtgtnc accgtggagt kggtttgggt gacgctgtta accattccac 1020  
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<210> 541

<211> 2259

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2253)

<223> n equals a,t,g, or c

<400> 541

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cgggcttata aaaatctgtg ccatcatggt gattttatcc aagactgctc cacttaccct 180  
agtgcctgggg acaagtttct gttgaaactt tagatagcag aattatttgc aatttgtagc 240  
atagaaaaga tttttaaatt tttttacaaa aggtttttta acagattagg gtaggtgatg 300  
gtttaaatca attaatgggc attggaaacc tagggtttcc ttttgattaa gagccttttt 360  
tgttttctgct ctttgtcagc tttcagggga gaaggaggcc actggaaaat tatttcccta 420  
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gtgacacagc tagggtcttc ctagcagctc ctccctcctcc ctcccaaggc ccccaggaat 540  
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ctccattgga gggaaaggaa gagtcttaga attcctaagg gaaccttagc ataaagggtt 840  
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cccatattct tctactgcc ttaactctgg tatacaccaa aaagaaatct ttactttcct 2160  
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<210> 542

<211> 1347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1290)

<223> n equals a,t,g, or c

<400> 542

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agggattggg gaatttttct gtaaactact ctaagggcaa tacagccaaa aatgggtggc 120  
tgcttctcag taccaatatg aagtgggtac agttttcaaa cctacacggt gatgttccaa 180  
aggatttgac caaacctgtg gtaacaatct ctgatgaacc agacatatta tataagcgcc 240  
tctcgggtttt ggtgaaagggt cacgataagg ctgtattgga cagttatgaa tattttgctg 300  
tgcttgctgc taaagaactt ggtatctcta ttaaagrtaca tgaacctcca aggaaaatag 360  
agcgatttac tcttctccaa tcagtgcata tttacaagaa gcacagagtt cagtatgaaa 420  
tgagaacact ttacagatgt ttagagttag aacatctaac tggaagcaca gcagatgtct 480  
acttggaata tattcagcga aacttacctg aaggggttgc catggaagta acaaagacac 540

aattagaaca gttaccagaa cacatcaagg agccaatctg ggaaacacta tcagaagaaa 600  
aagaagaaaag caagtcataa agcctcaggg aggccatttt tgcctaaatt tgaaatgagg 660  
gtggggccaga tgagtatgtt taagtggaga gtgcttccag ctgagatgat ttgagtctgy 720  
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catgagcaaa ccactttgac tgaaagcaga aagagtgaag attctatttt gttacgctac 900  
tggtgttcaa ttattagttt gtaccatttt taatttatgt cagttgatgc atctgaaaat 960  
aagtgtttgg agtggttcgt cccttatttt tttttaagat tcctagaagg aatcttttgg 1020  
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aatttggggg tggtaaccaa ccgattttat ctcatgtaag cattacattt tgaagactga 1140  
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gaactttata gagttgccta ccagggttac tgtaatggaa tttatgatct taagaaatta 1260  
ctagttgtat tatttatect atgattcatn cattcaataa gcttttactg cataaacttt 1320  
acattcagca ctgtagttaa gtacca 1347

<210> 543

<211> 1901

<212> DNA

<213> Homo sapiens

<400> 543

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tatgtggatc cagtgaagg gagaggaatc cgaattctct caattgatgg tggaggaaca 120  
aggggctgtg ttgctctcca gaccctacga aaattagttg aacttactca gaagccagtt 180  
catcagctct ttgattacat ttgtggtgta agcacagggt ccatattagc tttcatgttg 240  
gggttggttc atatgccctt ggatgaatgt gaggaacttt atcgaaaatt aggatcagat 300  
gtattttcac aaaatgtcat tgttgggaaca gtaaaaatga gttggagcca tgcattttat 360  
gacagtcaaa catgggaaaa cattcttaag gataggatgg gatctgcact gatgattgaa 420  
acagcaagaa accccacatg tcctaaggta gctgctgtaa gtaccatagt aaatagaggg 480  
ataacacca aagcttttgt gttcagaaac tatgggtcatt ttcttggaat caactctcat 540  
tatttgggag gctgtcagta taaaatgtgg caggccatta gacctcatc tgctgctcca 600  
ggctactttg cagaatatgc attgggaaat gatcttcatc aagatggagg tttgcttctg 660  
aataaccctt cggcattagc tatgcatgag tgtaaatgtc tttggccaga tgtgccgtta 720  
gagtgcatag tatccctggg cactggacgt tatgagagtg atgtgagaaa cacggtaaca 780  
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gtccatataa tgcttgatgg cctgtttacct cctgacacct atttttagatt caatcctgta 900  
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gaagggttga aatacataga aagaaatgaa caaaaaatga aaaaagttgc aaaaatatta 1020  
agtcaagaaa aaacaactct gcagaaaatt aatgattgga taaaattaaa aactgatatg 1080  
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gaaggctctgt ttagaagatc aaccacattc aataaggaat tgtgggggttc gacatgagtt 1200  
aactttgaaa tacgtatgaa ttctggagaa tcctgaaaaa gacgggtgctt caaccagctt 1260  
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tcaaccactt tttaccctg aaatttcaag ataatgctat attactttt ccagatctaa 1800

cactagctta ttcttccctg ttataaaatg gtttgaactt actgaggaga tattcctatc 1860  
attaacaaaa ataaactatt taaataawaa aaaagtcgac g 1901

<210> 544

<211> 842

<212> DNA

<213> Homo sapiens

<400> 544

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aggcgggtgac taaggctcag aagaaggacg ggaagaagcg caagcgcagc cgcaaggaga 180  
gctattcagt gtatgtgtac aagggtgctga agcagggtcca tcccgcacacc ggcattctctt 240  
ccaaggcaat ggggatcatg aattccttcg tcaacgacat cttcgagcgc atcgcaggcg 300  
aggcttcccg cctggcgcat tacaacaagc gctcgacccat cacctccagg gagatccaga 360  
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aggagaaatg aatgcataaa ataactgata atatgaatct atacatagaa cttaggaagt 540  
ctcatctgcc tgaaaatgac tgtgtggatc ccacccaaat ccaactcatc ctggtttgct 600  
gcacactggt tcatcaaaag aaggttaccg aggggaagga actaaagggtg tttgcacttc 660  
atgttacttt ttgagtttat aaacataaaa acagaattta cttctgttac agacctagtt 720  
actgggaatt cattacttgc catggactac ctttgctaag aaaagtctga atgagaagat 780  
ggcaggacgt ctgaaaaaaaa aagttataat taataaaatc tgcggagaat tgtaaaaaaa 840  
aa 842

<210> 545

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 545

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accgggtcca gacccacgcg gcgccagttc tccggcgagg aggaaaaccg cgcagagagg 180  
cagcaatgaa tgtggatcac gaggttaacc tcttagtgga ggaaattcat cgtttggggtt 240  
caaaaaatgc tgatggaaag ttaagcgtga aatttggggt cctcttccgt gatgataaat 300  
gtgccaacct ctttgaagca ttggtaggaa ctcttaaagc tgcaaaacga aggaagattg 360  
taacatatcc aggagagctg cttctgcaag gtgttcatga tgatgttgac attatattac 420  
tgcaagatta atgtggttta catatcttta tgtactgcc ttttttggtt ctggtaaaact 480  
ggaatataaa gtgaaagaac aaacatttga acatacttaa tgtattttta tagaactttg 540  
taaacgaaag gagattcatg ttttagaagt ctgtcctttt ttatatcttg aaagaaaatc 600



tatgtatgat gctataaaat aaatcctatt attttctmag natmtggttg anattctgcg 660  
aaagcaacaw gcaaactgaa gaccaactcc tatgagaaat attatgatgt ttatgtaata 720  
aagacatgta actgtcttaa awwwaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 778

<210> 546

<211> 2142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 546

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agctgtttga aggggaaaaat gcccatcgac mtcgtcattg atgaaagaga cggcagctcc 120  
aagtcagatc atgaagaact ttcaggctcc tccacaaatc tcgctgacca taacccttct 180  
tcttggcgag accacgatga tgcaacctca acccactcag caggncaccc cagggccctc 240  
cagtgggggc catgcttccc agagcggaga caacagcagt gagcaagggg atggtttaga 300  
caacagtgta gcttcacctg gtacagtgcg cgatgatgat ccggataagg acaaaaaacg 360  
ccagaagaaa agaggcattt tccccaaagt agcaacaaat atcatgagag catggctctt 420  
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aggacttaca attctccaag taaacaactg gtttattaat gccagaagaa gaatagtaca 540  
gcccatgatt gaccagtcaa atcgagcagg ttttcttctt gatccttcag tgagccaagg 600  
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catggggatc cggcctgcag gtttgacagag catgccaggg gactacgttt ctcagggttg 720  
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aagagaatac tgtaacaaac ttcgtacaga gttcgggtcta ttaattgttt catgttagat 1860  
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tgtggaattg gtattgtatg tccatgaatt cttcttttct cagcacgtgt tcctcactag 1980  
aagaaaatgc tgttaccttt aagctttgtc aaatttacat taaaatactt gtatgaggac 2040  
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tttttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc ga 2142

&lt;210&gt; 547

&lt;211&gt; 1893

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 547

cagtaccggt ccggaattcc cgggtcgacc cacgcgtccg ataattttata agcattgcca 60  
ttgaaggctt aattgactga aattacttta acatttttga aattgttgta tatcactaaa 120  
agcatgaatt ggaactgcaa tgaaagtcaa atttacttta aaaagaaatt aatatggctt 180  
caccaagaag caaagttaa cttatttcat aattgcctac atttatcatg gtcctgaatg 240  
tagcgtgtaa gcttgtgttt cttgggcagt ctttcttgaa attgaagagg tgaaatgggg 300  
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tcatttttaa atgtcttggt cttctactgc cttgaaaaat gacaattgtg aacatgatag 420  
ttaaactacc acttttttta accattatta tgcaaaattt agaagaaaag ttattggcat 480  
ggttgttgca tatagttaa ctgagagtaa ttcattctgtg aatctgcttt aattacctgg 540  
tgagtaactt agaaaagtgg tgtaaaacttg tacatggaat tttttgaata tgccttaatt 600  
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ccgctgcccc atgtgtcctg gtgagaaaat atatgcctgg cacagctttt gtatagaaaa 720  
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cagttatgtt tgaatgaacc ctctttttct ctgagattct ggtccctgga aatccctttc 960  
tgctagtggg gagcatgtaa gtgttaagtt tttaattctgg gagcagggca taggaagaaa 1020  
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atctgttcat ttctaaattt atattcataa agttacagtt tgatacagga attattagga 1140  
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&lt;210&gt; 548

<211> 630  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (61)  
<223> n equals a,t,g, or c

<400> 548  
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<211> 586  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (508)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (514)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

&lt;400&gt; 549

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garccacca cctaactact agaaaarnan cttngttcac ttaatttccc ctttaatttc 540
tttttccata aaargttaag ttaattttta agnggtgaaa ggntca 586
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&lt;210&gt; 550

&lt;211&gt; 1586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1574)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1578)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1585)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 550

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<210> 551

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2086)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2097)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2140)

<223> n equals a,t,g, or c

<400> 551

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<210> 552

<211> 1634

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 552

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<210> 553

<211> 278

<212> DNA

<213> Homo sapiens

&lt;400&gt; 553

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cttacgtgag aaagcttcaa gatcatgaac tgatcttg 278

&lt;210&gt; 554

&lt;211&gt; 2658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1292)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2128)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 554

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<210> 555

<211> 1728

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1525)

<223> n equals a,t,g, or c

<220>

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<222> (1641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1642)

<223> n equals a,t,g, or c

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<211> 3355

<212> DNA

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<220>

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<400> 556

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<213> Homo sapiens

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<400> 558



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&lt;211&gt; 3125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

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<211> 2645

<212> DNA

<213> Homo sapiens

<400> 560

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<213> Homo sapiens

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<220>

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<400> 561

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<210> 562

<211> 2417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2398)

<223> n equals a,t,g, or c

<400> 562

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&lt;210&gt; 563

&lt;211&gt; 1544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

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<210> 564

<211> 2299

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<400> 564

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<210> 565

<211> 364

<212> DNA

<213> Homo sapiens

<400> 565

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<210> 566

<211> 2481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<400> 566

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<210> 567

<211> 1364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1362)

<223> n equals a,t,g, or c

<400> 567

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&lt;210&gt; 568

&lt;211&gt; 1606

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 568

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&lt;210&gt; 569

&lt;211&gt; 1385

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 569

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&lt;210&gt; 570

&lt;211&gt; 1144

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

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<211> 2754

<212> DNA

<213> Homo sapiens

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<222> (2610)

<223> n equals a,t,g, or c

<220>

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<222> (2611)

<223> n equals a,t,g, or c

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<211> 2657

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<400> 572

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2657

&lt;210&gt; 573

&lt;211&gt; 2352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2096)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 573

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<211> 328

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (9)

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<220>

<221> misc feature

<222> (10)

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<213> Homo sapiens

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<211> 2508

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (2472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2494)

<223> n equals a,t,g, or c

<400> 576

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<210> 577

<211> 1531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

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<220>

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<222> (435)

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<220>

<221> misc feature

<222> (1525)

<223> n equals a,t,g, or c

<220>

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<222> (1530)

<223> n equals a,t,g, or c

<220>

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<222> (1531)

<223> n equals a,t,g, or c

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<211> 1244

<212> DNA

<213> Homo sapiens

<400> 578

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<211> 2525  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (22)  
<223> n equals a,t,g, or c

<220>  
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<222> (76)  
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<210> 580

<211> 4006

<212> DNA

<213> Homo sapiens

<400> 580

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&lt;210&gt; 581

&lt;211&gt; 565

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 581

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&lt;210&gt; 582

&lt;211&gt; 2528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

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2528

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&lt;211&gt; 507

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<222> (21)

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<220>

<221> misc feature

<222> (1871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<400> 584

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1931

&lt;210&gt; 585

&lt;211&gt; 1020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1006)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1018)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 585

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&lt;210&gt; 586

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (617)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 586

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<210> 587

<211> 847

<212> DNA

<213> Homo sapiens

<400> 587

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<210> 588

<211> 2158

<212> DNA

<213> Homo sapiens

<400> 588

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<212> DNA

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<222> (772)

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&lt;210&gt; 590

&lt;211&gt; 2180

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1353)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 590

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<210> 591

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 591

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ccacgtggaa gggcttaaca gctctaggag gcctgtatth catgtttctt gttgaacatg 780  
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gccattcaca tttccacgat acactcggcc agtcagacga tctcattcac caccatcatg 1140  
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<210> 592

<211> 2002

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1914)

<223> n equals a,t,g, or c

<400> 592

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tatggccaac agcaagatgc ataccaggga ccacctccac aacagggata tccaccccag 180  
cagcagcagt acccagggca gcaagggttac ccaggacagc agcagggcta cggtccttca 240  
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ggatatagac caacacagcc tggaccacca cagccacccc agcagaggcc ttatggatat 360  
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<210> 593

<211> 1014



<212> DNA

<213> Homo sapiens

<400> 593

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agttgggaaa tcctagagca accatatctg ttactttcca tcctgggttat atttcttaat 180
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ggagtgggtc ttagtatcct caggctgttk ccattctgct cctgctgtca attttcaagc 480
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ttaaaatgca tcccgttggt tttgtggcgt tttcgatcct ttcttttyta atgtgtccca 960
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<210> 594

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 594

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tcaccttcgc ctctgctgaa gtctccccgc agccctctcc acccagaggt ctccctatac 180
cgagacccac catccttcca tcctgaggac cgccccaaac ctcggagccc cccactcagt 240
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gcttccttaa ggaacctttc aaccaaancc ttc 333
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<210> 595

<211> 1120  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (29)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (40)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (585)  
<223> n equals a,t,g, or c

<400> 595

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ctccccggcc cattttgtgg gaggcgagag atctgtcaac atggaaaacc tctgctgagg 120
atgcatccga gtttggaac cccacttaag ggatggagcc tgggggatca cattaacgg 180
aaaatgccaa cgacttctac cacctctacg cgtttttagt ttttcatttt ctogaaggaa 240
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ttcctattaa aaaattacca ataacagtgg aaaaaaaaaa 1120
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<210> 596  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 596

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ttgagtaatt ccatgccttt tgacaagtgt tctgtaccca tgccacgacc accacaatcg 180
agagagaaca tcttcatcac tccagaaggg ctcttttgca gtgagtactc cctaggagtt 240
ccagcggccg gtgacattga tctgttttct gtcactgtag atgagatttg tctgttatat 300
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acaatttttta aaaatttaa at gatatgtatg gcttcttttg cttagcataa tgttttttgag 360  
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tggatacgtt gtttatccat gtgttttatcc ccaatggaca ttgggttggt tctgattttt 480  
tggttattat tatgaataaa gttgctatga acattattgt ataaaaaaaa aa 532

<210> 597

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1483)

<223> n equals a,t,g, or c

<400> 597

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aagggtacag ccgttggtcaa tggagaggtc aaagacctaa gccttgatga ctttaagggg 180  
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<210> 598

<211> 2188

<212> DNA

<213> Homo sapiens

<400> 598

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atgaggggtat atattcggag ygagcgcggg acscgatgag tggccgcgcg gaaggagctg 180

gagacggctg tagctgcggt cgcgccgaga aaggttttaca ggtacataca ttacacccct 240  
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&lt;210&gt; 599

&lt;211&gt; 1273

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 599

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<210> 600

<211> 1239

<212> DNA

<213> Homo sapiens

<400> 600

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ggcgtgcaaa aactaacatt gaaattttga aacagcagca gagtgagtgg attttatattt 180  
tcgttattgt tgggtggtta aaaaattccc cccatgtaat tattgtgaac accttgcttt 240  
gtggtcactg taacatttgg ggggtgggac agggaggaaa agtaacaata gtccacatgt 300  
ccctggcatc tgttcagagc agtgtgcaga atgtaatgct cttttgtaag aaacgtttta 360  
tgatttttaa aataaattta gtgaacctat ttttggtggt catttttttt ttaagacagt 420  
catttttaaa tgggtggctga atttcccaac ccaccccaa actaaacact aagtttaatt 480  
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<210> 601

<211> 1286

<212> DNA

<213> Homo sapiens

<400> 601

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gtgcgagcca ctgcgcctgg ctggttttca tgaatcttga tagacatcta taacgttatt 180  
attttcagtg gtgtgcagca tttttgcttc atgagtatga cctaggtata gagatctgat 240

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aacttgaatt cagaatatta agaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300
aaaattttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360
taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
agggcatgga ctgagtgcctg ctatcttgaa atgtgcacag gtacacttac cttttttttt 480
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aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat 600
gtgggggtggg taatactgtc tgtgaaataa tgtaagaagc ttttactta aaaaaaatgc 660
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caacaattct tagagatgct agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780
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gcttttctaa tgttttaacc ttgagtattg cagttgctgc tttgtacaga ggttactgca 1200
ataaaggaag tggattcatt aaactaaaaa aaaaaaaaaa aaaaaaaaaa aaaagtcgac 1260
cggccggtta tttagtagta gtaggc 1286
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<210> 602

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 602

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ggaggtgttt tgtctaacca tcaaaatggt tgagactttt ttttaaacad ttctgagttc 120
gaaggtaata ctgacagatt tcttccctct tccctcccca tcacccacct cagtgataac 180
acattactga tagaggaagt cattagaatc atttttaagt ttcagatata ggagacttca 240
tgcaatttgg agataagact aattattggg ggttttcctt ggattttttt ttttaataact 300
gggggctatt ttatcagctt gcctattaaa ggactatggt aagtatagaa tcttaatggt 360
tgccagttag taattctttt tttttttttt ttactgtana caca 404
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<210> 603

<211> 1168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1122)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 603

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ccccagggtcc agttcaaact tgtattgggt ggtgatgggt gtactggaaa aacgaccttc 180
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gttcaccccc tagtgttcca caccaacaga ggacctatta agttcaatgt atgggacaca 300
gccggccagg agaaattcgg tggactgaga gatggctatt atatccaagc ccagtgtgcc 360
atcataatgt ttgatgtaac atcgagagtt acttacaaga atgtgcctaa ctggcataga 420
gatctggtac gagtgtgtga aaacatcccc attgtgttgt gtggcaacaa agtggatatt 480
aaggacagga aagtgaaggc gaaatccatt gtcttccacc gaaagaagaa tcttcagtac 540
tacgacattt ctgccaaaag taactacaac tttgaaaagc ccttcctctg gcttgctagg 600
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gttgctcatg acccagcttt ggcagcacag tatgagcacg acttagaggt tgctcagaca 720
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tattatctag ctaagcggaa catgtgcttc atctgtggga tgctgaagga gatgagtggg 900
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tgttttgga cgcagttgat tccttgagtt tcatatataa gactgctgca gtcacatcac 1020
aatattcagt ggtgaaatct tgtttgttac tgtcattccc attccttttc gtttagaatc 1080
agaataaagt tgtatttcaa atatctaaaa aaaaaaaaaam nngggggggs cgnccattcc 1140
ccaaaggggg gtnaaaaccc gggggggtt 1168
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<210> 604

<211> 458

<212> DNA

<213> Homo sapiens

<400> 604

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ccatcttcgg ctaggtcgtc acaggctccg gctcatggca tcaagtggca tccatcataa 120
gatcgttaac tgaagacaat atgcaaaatt ctcacatgga tgaatacaga aattctagta 180
atggcagcac aggcaacagt tcagaggtag tggtagaaca tcctactgat ttcagtactg 240
agattatgaa cgttacagaa atggaacagt cacctgatga ctctcccaat gtgaatgcat 300
ctacagaaga aactgaaatg gcaagtgctg tggaccttcc agtgacgctg acagaaacag 360
aagcaatttc cctccagaat atgaaaaatt ttggaaaact gtagaaaata atcctcaggt 420
tttaaaggct gggatatatt gcctcaatat gtagaaca 458
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<210> 605

<211> 911

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (897)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (904)  
<223> n equals a,t,g, or c

<400> 605  
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tggtttcgcc gtggtctgcg gcccggggag tgcttcgaaa ctactgggag cgactgctac 120  
ggaagcttcc gcagagccgg ccgggctttc ccagtcctcc gtggggacca gcattagcag 180  
tacagggccc agccatgttt acagagccag caaatgatac cagtggaggt aaagagaatt 240  
ccagcctttt ggacagtatc ttttggtatg cagctcccaa aaatagacgc accattgaag 300  
ttaaccggtg taggagaaga aatccgcaga agcttattaa agttaagaac aacatagacg 360  
tttgtcctga atgtggtcac ctgaaacaga aacatgtcct ttgtgcctac tgctatgaaa 420  
aggtgtgcaa ggagactgca gaaatcagac gacagatagg gaagcaagaa gggggccctt 480  
ttaaggctcc caccatagag actgtggtgc tgtacacagg agagacaccg tctgaacaag 540  
atcagggcaa gaggatcatt gaacgagaca gaaagcgacc atcctgggtc acccagaatt 600  
gacaccaaag atgttaaaag gataacttca cagtaaatca tttctcctga aatagaggaa 660  
gattctttac gttgttgtgc ttgtttttaa atcatcagta tagtttaaca cattctttct 720  
aagcagtttt gtgtgggata atttgaagaa tatattatga gtaaaactccg aaaattttgt 780  
ttatccaaag gctcaatgga ttatgtttct attatataca aggttttaag taaacataaa 840  
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cgcnctaggg g 911

<210> 606  
<211> 738  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (730)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (737)  
<223> n equals a,t,g, or c

<400> 606  
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gaggacgggg gccctggggc cgagtcacgc ggggtcgcgc gctttggggc gctgcacttc 180  
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aacctggaga acgatgagga tggagcccag gcctctccgg agccggatgg gggagtcggc 300  
accagggttag ggccagggat tccagccgaa cttccaccgg ggcttccagt tcttctacct 360  
gccctacttc gagaagtgat cgcggcgag cgtggacccc ttgcgcccac gggggcgccc 420  
ctcttgccct gttccgttcc cctcatctca agggaagagg ccctccagga ccctcgaaac 480  
cccagcccct agggagtttg ctcaggaagt tcggggcatg caggcctggc cctgggaaag 540  
ccgcccgtcg cctgctctgt gccttaactt attctcgggc cgtgcggctg ctaggttgct 600  
gttattttgt gctaataaaa gagtaattaa ttccaaaaaa aaaaaaaaaa aaaaaaaaaa 660  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg ccgtttttaa 720  
ggatccaagn ttacgtnc 738

<210> 607

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1328)

<223> n equals a,t,g, or c

<400> 607

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gtcagcatga aagccttcag tcccgtaggg tccgttagga aaaacagcct gtcggaccac 180  
agcctgggca tctcccgagg caaaacccct gtggacgacc cgatgagcct gctatacaac 240  
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gtgagcaaga tggaaatcct gcagcacgtc atcgactaca tcttgagcct gcagatcgcc 360  
ctggactcgc atcccactat tgtcagcctg catcaccaga gacccgggca gaaccaggcg 420  
tccaggacgc cgctgaccac cctcaacacg gatatacaga tcctgtcctt gcaggcttct 480  
gaattccctt ctgagttaat gtcaaatgac agcaaagcac tgtgtggctg aataagcggc 540  
gttcatgatt tcttttatct tttgcacaac aacaacaaca acaaattcac ggaatctttt 600  
aagtgtgaa cttatttttc aaccatttca caaggaggac aagttgaatg gaccttttta 660  
aaaagaaaaa aaaaatggaa ggaaaactaa gaatgatcat cttcccaggg tgttctctta 720  
cttgagactgt gatattcggt atttatgaaa aagactttta aatgcccttt ctgcagttgg 780  
aaggttttct ttataacta tttccaccat ggggagcgaa aacgttaaaa tcacaaggaa 840  
ttgcccacac taagcagact ttgccttttt tcaaagggtg agcgtgaata ccagaaggat 900  
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ctctttaatt agagttttct tgtatagtgg cagagatgtc tatttctgca ttcaaaagt 1080  
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ccagtgtttt gatttttatt atgctatgtt ataactgaac ccaaataaat acaagttcaa 1260  
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<210> 608

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (690)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (703)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (718)  
<223> n equals a,t,g, or c

<400> 608  
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tttcatcatt catgtaacat tctcacacag ttgaggrtat tcatctcctc accaattcca 180  
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tcagagtggg cacgttgggc agrtgggcac aggtgctggg gatgccccctc ckgggcaaaa 660  
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ac 722

<210> 609  
<211> 330  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<400> 609  
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cctaacaata cagcacaagc agcttctcat ggcattaaga attgtttgta catgtaattt 120  
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taatagcact gtgacgaaca tccttcttaa caaaattctt tgtctgcacc tatggttatt 240  
ttctaaggta grttattaga atttgaaatg ccttgcacaa gggacagtaa ctttttcacc 300  
cttagttttc agggnggacc ngttgtctcn 330

<210> 610

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 610

ggcctcccaa agtgttgaga ttacaggtgt gagccaccat gctcgtgag agcagatatt 60  
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aatatattac tgcttaaaaa gatttcctaw aaagaaatgt atcmagtgtg tgaatcaaag 180  
tctgaaagaa agatgaagag ccaccagact tctaggtagg tttacatcca tcatgttcct 240  
cttgactgcc tttgtttgtc gtttagtttt ttgctccact caagcctgtt agaatcacca 300  
tggaatacag ctccagtggg aaggccactg gagaagctga tgtgcacttt gagacccatg 360  
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gaagcaagaa gcatttcatt tgcacatctt tcttggaactt gggatataca gttccagttt 540  
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gtttcatagt ggactgttta gaagaagaaa tgaaagatcc agtttgggat tatgaaataa 660  
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tcgacg 1866

<210> 611

<211> 2176

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (2162)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2168)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2169)  
<223> n equals a,t,g, or c

<400> 611

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ctgggacata	attccaactg	tgcacttgtg	aacctagaaa	acaagttatc	tgttcccaag	180
tatgatggca	tgacaggcag	acaataatag	ttacacacgt	tcctgttcaa	aaagcagaaa	240
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gtctcagagt	catctttact	ttttcacaaa	aggtagcaca	cgtttgcagc	tgagtatcaa	420
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<210> 612

<211> 3619

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 612

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<211> 1427

<212> DNA

<213> Homo sapiens

<220>

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<222> (297)

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<400> 613

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<210> 614

<211> 1433

<212> DNA

<213> Homo sapiens

<400> 614

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<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<400> 615

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<211> 2174

<212> DNA

<213> Homo sapiens

<400> 616

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<211> 3147

<212> DNA

<213> Homo sapiens

<400> 617

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&lt;210&gt; 618

&lt;211&gt; 2529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 618

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<210> 619

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 619

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<210> 620

<211> 1735

<212> DNA

<213> Homo sapiens

<400> 620

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&lt;210&gt; 621

&lt;211&gt; 1026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 621

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&lt;210&gt; 622

&lt;211&gt; 670

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<400> 622

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<210> 623

<211> 2163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<400> 623

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<210> 624

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

<400> 624

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a t a c a g a a c g a t g g a g t a t a t g g c a g a a t c c a c c g a c c g c a g c c c t g g a c a c a t c t t g t g 180  
c t g t g a g t g t g g t g t t c c g a t a a g t c c a a t c c t g c c a a t a t t t g t g t g c c t g t t t g c g 240  
a a g t a a a g t g g a c a t c a g c c a a g g t a t t c c g a a a c a a g t c t c g a t t t c g t t c t g c a a a c a 300  
a t g t c a a a g g t a t t t t c a a c c a c c a g g a a c t t g g a t a c a g t g t g c t t t a g a a t c c a g g y a 360  
a c t t c t t g c t t t g t g c t t g a a a a a a t c a a a g c c c c t c t g a g t a a g g t a c g g c t t g t a g a 420  
t g c a g g c t t t g t t t g g a c t g a g c c t c a t t c t a a g a g a c t t a a a g k t a a a c t g a c t a t t c a 480  
g a a a g a g g t g a t g a a t g g t g c t a t c c t t c a a c a a g t g t t t g t g g t g g a t t a t g k t g k c c c 540  
c a a a t g g g g g g a g a t g g c a t a n a g a n a a c t a a g g a t t c t g g a a a g g t t g g a t t a a g g g g n 600  
g 601

<210> 625

<211> 593

<212> DNA

<213> Homo sapiens

<400> 625

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a c t a a c a a a a g a t g g c t a c g a g g g t a a c a t g t t c g g a g g c c t c a g c g g g g c a a c a g t c a t 120  
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c t g g g t g g g a g a g a g c t t c c a c c t g a a c g t g a g c g g a g a a g c a t c c t t g t t t g a g g t g a a 240  
c a t c c g c t a c a t c g g g g g a c t c c t c t c a g c c t t c t a c c t g a c a g g a g a a g a g g t g t t c c g 300  
a a t a a a g g c c a t c a g g c t g g g a g a g a a g c t c c t g c c g g c g t t c a a c a c c c c a c g g g a a t 360  
c c c a a a g g g c g t g g t g a g c t t c a a a a g t g g g a a c t g g g g c t g g g c c a c a g c c g g c a g c a g 420  
c a g c a t c t t g g c g g a g t t t g g a t c c c t g c a c t t g g a a t t c t t a c a c c t c a c t g a a c t c t c 480  
t g g c a a c c a g g t c t t c g c t g a a a a g g t c a g g a a c a t c c g c a a g g t c c t c a g g a a g w t c g a 540  
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<210> 626

<211> 2272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2267)

<223> n equals a,t,g, or c

<400> 626

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g g a c t c g c g t c g c g g c c g c g g a g a c g t g a a g c t c t c g a g g c t c c t c c c g c t g c g g g t c g g 120  
c g c t c g c c c t c g t c t c c t c g c c t c c g c c c g g c c c c g c g c c c g c c a t g g a g a 180  
a g a c t g a g c t g a t c c a g a a g g c c a a g c t g g c c g a g c a g g c c g a g c g c t a c g a c g a c a t g g 240  
c c a c c t g c a t g a a g g c a g t g a c c g a g c a g g g c g c c g a g c t g t c c a a c a g a g a g c g c a a c c 300  
t g c t c t c c g t g g c c t a c a a g a a c g t g g t c g g g g c c g c a g t c c g c c t g g a g g g t c a t c t c 360  
t a g c a t c g a g c a g a a g a c c g a c a c c t c c g a c a a g a a g t t g c a g c t g a t t a a g g a c t a t c g 420  
g g a g a a a g t g g a g t c c g a g c t g a g a t c c a t c t g c a c c a c g g t g c t g g a a t t g t t g g a t a a 480  
a t a t t t a a t a g c c a a t g c a a c t a a t c c a g a g a g t a a g g t c t t c t a t c t g a a a t g a a g g g 540  
t g a t t a c t t c c g g t a c c t t g c t g a a g t t g c g t g t g g t g a t g a t c g a a a a c a a a c g a t a g a 600  
t a a t t c c c a a g g a g c t t a c c a a g a g g c a t t t g a t a t a a g c a a g a a g a g a t g c a a c c c a c 660  
a c a c c c a a t c c g c c t g g g g c t t g c t c t t a a c t t t t c t g t a t t t a c t a t g a g a t t c t t a a 720

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attggactgc atttcttaga gtgttttact atagatcagt ctcatgggcc atctcttcct 2160
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maaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ta 2272
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<210> 627

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<400> 627

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aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660  
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<210> 628

<211> 779

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 628

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gccaaagact ttcaaacttt tggctgcctt ggccagtagg aggcgacacg aaggatttgc 480  
tgctgccttg ggggatggga aggaacctga aggcattttt tccagagtgg tgcagtacca 540  
ctgaggactg ttgctgtatt gattaggaaa agagacagag taatttgagc tttgtttgat 600  
ttatactttt gtttatctac aaccaataa cagacatgag ggatggccct gtctctctgg 660  
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<210> 629

<211> 1835

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1835)

<223> n equals a,t,g, or c

<400> 629

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agtctggaag gagagaacat ccggaagatg cagggtctca tgttccgggtg cagcgccagc 180  
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ctggcccggg gcaccatgca ttgcaaygac aaagccaaag attcaataga tgctgggagt 360  
aaggagcttc aggtgaagca gcagctggac agttgtgtga ccaagtgtgt ggatgaccac 420

atgcacctca tcccaactat gaccaagaag atgaaggagg ctctcttatac aattggaaaa 480  
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tgggaatttt agtcttttaa gcaaagttta cgaatgaaga aatgaaggat ggccacaagc 600  
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tattattttcc tgtggccagt gcttgtcctg gcagtaaggc tytcccctgt aacaagccag 780  
agccctccaa ggtaccagac tcttcttact acacagggtac taacaggctg gcaggttaga 840  
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tcaccaactt attacttgaa attataatat agcctgtccg tttgctgttt ccaggctgtg 1740  
atatattttc ctagtgtgtt gactttaaaa ataaataagg ttttaattttc tccccaaaaa 1800  
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<210> 630

<211> 1097

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 630

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taaatgaagt ggcagatgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080  
aaaaaaaaaa aaaaaaa 1097

<210> 631

<211> 1537

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 631

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cttcgctgcc ctgcgcgctg gctagcaggg agtttccgct cgggagagag actgtcctca 180  
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cactgtcggg gcttcctcaa agctgttcgt aggtcgcccg cgccgtctcg agcctttttc 420  
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aaaaaaaaaa actcgagggg gggcccccgt acccaac 1537

<210> 632

<211> 1901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1894)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<400> 632

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gtgcgtgaac	tctgttatcc	agaaggcctc	gccctgccgc	cgccgaagct	ggaattcgte	240
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<210> 633  
<211> 1750  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (809)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (821)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1676)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1689)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1712)  
<223> n equals a,t,g, or c

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<211> 1926

<212> DNA

<213> Homo sapiens

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<400> 634

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 636

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&lt;211&gt; 1663

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 637

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<211> 3947

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3738)

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&lt;211&gt; 1427

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 920

<212> DNA

<213> Homo sapiens

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<210> 641

<211> 1706

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1704)

<223> n equals a,t,g, or c

<400> 641

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<210> 642

<211> 2170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2155)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2170)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 642

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&lt;210&gt; 643

&lt;211&gt; 1712

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1664)

<223> n equals a,t,g, or c

<400> 643

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<210> 644

<211> 1793

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (790)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1793)

<223> n equals a,t,g, or c

<400> 644

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<210> 645

<211> 2679

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

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&lt;210&gt; 646

&lt;211&gt; 832

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 646

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&lt;210&gt; 647

&lt;211&gt; 1325

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 647

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<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<400> 648

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<212> DNA

<213> Homo sapiens

<220>

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<211> 3059

<212> DNA

<213> Homo sapiens

<400> 650

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&lt;210&gt; 651

&lt;211&gt; 1366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

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&lt;210&gt; 652

&lt;211&gt; 1425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 652

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&lt;210&gt; 655

&lt;211&gt; 1997

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 655

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aaaaaaaaaa aaaaaaa 1997

&lt;210&gt; 656

&lt;211&gt; 1597

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 656

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<211> 372

<212> DNA

<213> Homo sapiens

<400> 657

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<210> 658

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 658

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<210> 659

<211> 464

<212> DNA

<213> Homo sapiens

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<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 659

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<210> 660

<211> 2549

<212> DNA

<213> Homo sapiens

<400> 660

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&lt;210&gt; 661

&lt;211&gt; 1162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1155)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 661

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<211> 1178

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (978)

<223> n equals a,t,g, or c

<400> 662

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<211> 740  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (25)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (546)  
<223> n equals a,t,g, or c

<220>  
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<222> (618)  
<223> n equals a,t,g, or c

<220>  
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<222> (639)  
<223> n equals a,t,g, or c

<220>  
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<222> (652)  
<223> n equals a,t,g, or c

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<212> DNA  
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<400> 664



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&lt;221&gt; misc feature

&lt;222&gt; (1881)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 665

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<222> (1205)

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<211> 1997

<212> DNA

<213> Homo sapiens

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<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1974)

<223> n equals a,t,g, or c

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&lt;210&gt; 668

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

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&lt;210&gt; 669

&lt;211&gt; 1097

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

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<211> 2900

<212> DNA

<213> Homo sapiens

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&lt;210&gt; 671

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

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&lt;210&gt; 672

&lt;211&gt; 2825

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 672

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tcgag

2825

&lt;210&gt; 673

&lt;211&gt; 1430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (435)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1046)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1409)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1413)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 673

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1430

&lt;210&gt; 674

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1098)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1103)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1120)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 674

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&lt;210&gt; 675

&lt;211&gt; 1077

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (523)

<223> n equals a,t,g, or c

<400> 675

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<210> 676

<211> 920

<212> DNA

<213> Homo sapiens

<400> 676

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<210> 677

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 677



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<210> 678

<211> 2667

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<400> 678

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acaaggcatt ctctaaagct atgtgaaatt ttctctgcac ctctgtacag agaatacacc 2160  
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&lt;210&gt; 679

&lt;211&gt; 952

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 679

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gccgcgacgc agagagcggc cactccctgg ccgaggggca ggctcctcac ggcctccctg 180  
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gatagcttgg ccttcgtgaa aggggcccag gtggacttca gccagaact gatccgaagc 480  
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gaagaacctg gaattagtag aattctagaa gtttacttct aatcatgtcc ctctcaattt 660  
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acctcagatt taatcactgg ttgaaactcc gtataatctg tagagcctcc atggctctaa 840  
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<210> 680  
<211> 2309  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<400> 680  
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agccaatttg tctctcttga ggaggcctgg agagaaaact tacacacagc gatgtcgggt 180  
gtttgttggg aatctacctg ctgatatac ggaggatgaa ttcaaaagac tatttgctaa 240  
atatggagaa ccaggagaag tttttatcaa caaaggcaaa ggattcggat ttattaagct 300  
tgaatctaga gctttggctg aaattgccaa agccgaactg gatgatacac ccatgagagg 360  
tagacagctt cgagttcgtt ttgccacaca tgctgctgcc ctttctgttc gtaatctttc 420  
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ggaaagtga atggaagatg cctatcatga acatcaggca aatcttttgc gccaaagatc 900  
gatgagacga caggaagaat taagacgcat ggaagaactt cacaatcaag aaatgcagaa 960  
acgtaaagaa atgcaattga ggcaagagga ggaacgacgt agaagagagg aagagatgat 1020  
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<210> 681  
<211> 451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (370)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (419)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<400> 681  
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atgggaacct gactcccgag cgctccgacg tgtggtttgc gcttcaactc aaccgcaagc 180  
tccgacttgg ggtgggaaat cgggccatcc gcacagagaa gatcatctgc cgggacgtgg 240  
ctcgggggcta tgagaacgtg cccattccct gtgtcaagggt gtggatgggg agccctgccc 300  
tgaggattac aagtacatct cagagaactg cgagacgtcc accatgaaca tcgatcgcaa 360  
catcacccan ctgcagcaat gcaagttgtt gttggaacga attgctctaa gcttccaant 420  
tgccctgtnc cggccaagct tcaagcaatc c 451

<210> 682  
<211> 1298  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1294)  
<223> n equals a,t,g, or c

<400> 682  
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ggctcgtcttc ctgtccccgg ctgtgcctga ggagccagag gcctacaacc tcacggtgct 180  
gatcgagatg gacgggcacc gtgccctgct cagaacagag gccggggcct tcgagtacgt 240  
gcctgacccc acctttgaga acttcacagg tggcgtcaag aagcagggtca acaagctcat 300  
ccacgccccg ggcaccaatc tgaacaaggc gatgacgctg caggaggccg aggccttcgt 360  
gggtgcccag cgctgcacca tgaagacgct gacggagacc gacctgtact gtgagcccc 420  
ggaggtgcag ccccgccca agcggcgga gaaacgagac accacacaca acctgcccga 480  
gttcattgtg aagttcggt ctcgcgagtg ggtgctgggc cgcgtggagt acgacacacg 540  
ggtgagcgac gtgccgctca gcctcatctt gccgctgggc atcgtgccca tgggtggtcgt 600

catcgcggtg tctgtctact gctactggag gaagagccag caggccgaac gagagtatga 660  
gaagatcaag tcccagctgg agggcctgga ggagagcgtg cgggaccgct gcaagaagga 720  
attcacagac ctgatgatcg agatggagga ccagaccaac gacgtgcacg aggccggcat 780  
ccccgtgctg gactacaaga cctacaccga ccgcgtcttc ttcctgccct ccaaggacgg 840  
cgacaaggac gtgatgatca ccggcaagct ggacatcccy gagccgcggc ggccggtggt 900  
ggagcaggcc ctctaccagt tctccaacct gctgaacagc aagtctttcc tcatcaattt 960  
catccacacc ctggagaacc agcgggagtt ctcgccccgc gccaaaggctt acttcgcgtc 1020  
cctgctgacg gtggcgctgc acgggaaact ggagtactac acggacatca tgcacacgct 1080  
cttcctggag ctcttgagc agtacgtggt ggccaagaac cccaagctga tgctgcgcag 1140  
gtctgagact gtggtggaga ggatgctgtc caactggatg tccattytyg caccaatytyg 1200  
acaaggcgat gacsccttcag gaagcccaag ccttctgggt gcccaascgc ttgcaccatg 1260  
aaaaacgctt gacggaaacc gactttactg tgancccc 1298

<210> 683

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 683

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tgaggagagg attagtgact taacgacaaa tcttgacagaa gaggaagaaa aggccaagaa 180  
tcttaccaag ctgaaaaaca agcatgaatc tatgatttca gaactggaat gcggctaaag 240  
aaggaagaga agagccgaca ggagctggag aagctgaaac ggaagctgga gggatgatgcc 300  
agcgacttcc acgagcagat cgctgacctc caggcgcaga tcgcagagct caagatgcag 360  
ctggccaaga aggaggagga gctgcaggsg gccctggcca ggcttgacga tgaaatcctn 420  
cagaagaaca atgccctgaa gaagatccgg gagctggagg gccacatctc agacctccag 480  
gaggacctgg actcagagcg ggccgccagg aacaaggctg aaaagcagaa gcgagacctc 540  
ggcgaggagc tggaggccct aaagacagag ctggaagaca cactggacag cacagccact 600  
cagcaggagc tcaggggcaa gagggagcag gaggtgacgg tgctgaagaa ggccctggat 660  
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gtggaggagc tcaagcaacg agctggccac agagcgcaca cgggcccaga agaattgagag 780  
tgcccggcag cancttcgag cggcagaaca aggagctccg gagcaagctc ccacgagatt 840  
ggagggggcc gtcaagtcc 859

<210> 684

<211> 1251

<212> DNA

<213> Homo sapiens

<220>